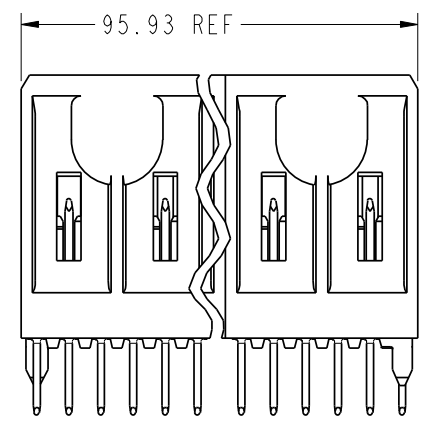
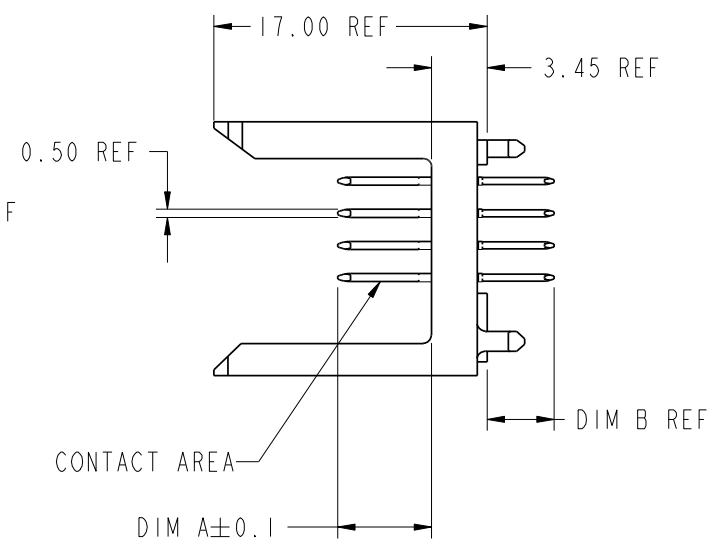
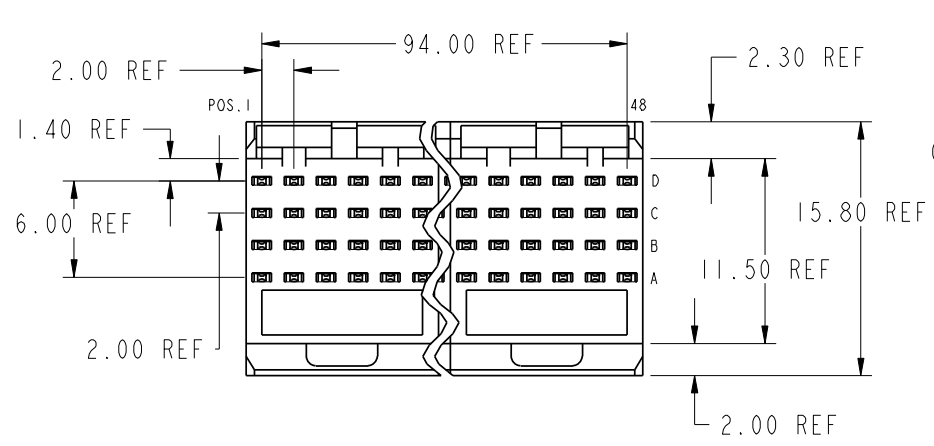




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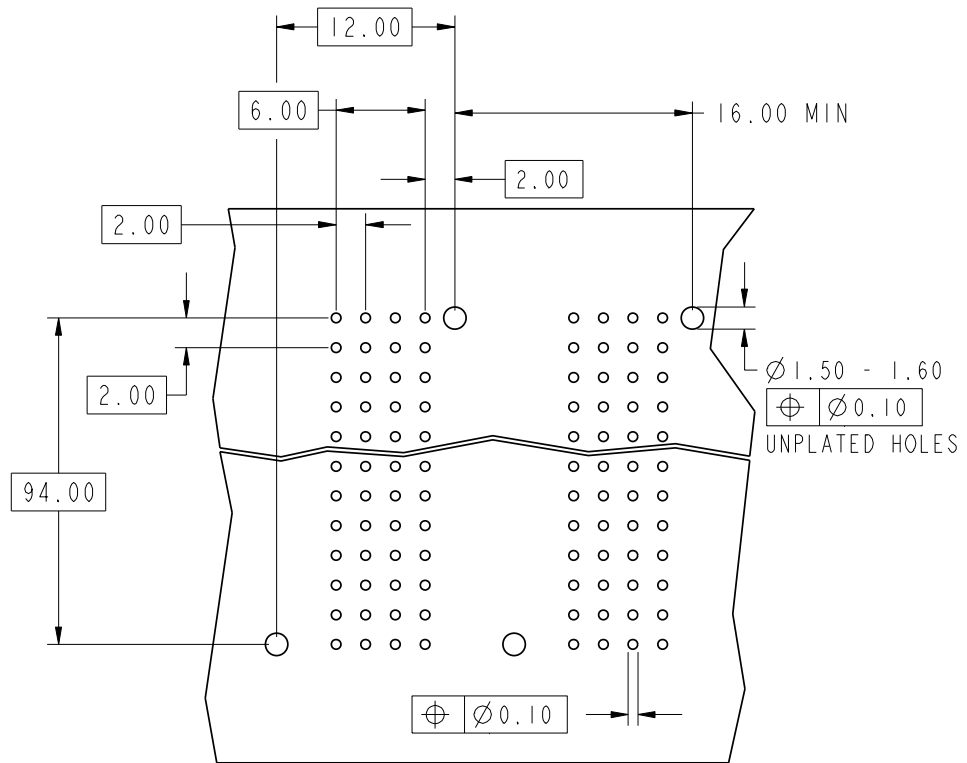
| PRODUCT NUMBER<br>SEE NOTES 4, 8 AND 9 | PERFORMANCE LEVEL |
|----------------------------------------|-------------------|
| 88954-1YY(LF)                          | TELCORDIA CO      |
| 88954-2YY(LF)                          | TELECOM CLASS     |
| 88954-3YY(LF)                          | IEC CLASS I       |
| 88954-5YY(LF)                          | TELCORDIA UE      |

| rev | ecn no    | dr  | date       |
|-----|-----------|-----|------------|
| U   | V06-0569  | DCH | 2006-06-13 |
| V   | V07-0113  | DCH | 2007-02-05 |
| W   | DG09-0256 | TER | 2009-08-19 |
| X   | DG10-0306 | TER | 2010-08-24 |
| -   | -         | -   | -          |
| S   | V05-0393  | DAI | 04/26/05   |
| T   | V06-0121  | DAI | 02/09/06   |

|                                                                                       |            |          |                                                                        |  |         |                                   |        |                            |                                                                                                     |                  |                                                                                       |  |
|---------------------------------------------------------------------------------------|------------|----------|------------------------------------------------------------------------|--|---------|-----------------------------------|--------|----------------------------|-----------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|--|
| www.fciconnect.com                                                                    |            |          | surface 3.200<br>ISO 1302                                              |  |         | tolerance std<br>ISO 406 ISO 1101 |        |                            | projection<br> |                  |  |  |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                                  |  |         |                                   |        |                            |                                                                                                     |                  |                                                                                       |  |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR<br><br>LINEAR                                                  |  | 0.X     |                                   | ±0.3   |                            | size<br>A4                                                                                          | Scale<br>1:1     |                                                                                       |  |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                                                        |  | 0.XX    |                                   | ±0.13  |                            |                                                                                                     |                  |                                                                                       |  |
| Chr                                                                                   | M.STRAWSER | 11/19/99 |                                                                        |  | 0°. ±2° |                                   | ±.051  |                            |                                                                                                     |                  |                                                                                       |  |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | Product family                                                         |  |         |                                   | METRAL |                            | Spec ref                                                                                            |                  | -                                                                                     |  |
|  |            |          | title<br><b>METRAL SIGNAL HEADER</b><br>8 MOD, 4 ROW STB<br>catalog no |  |         |                                   |        | drawing no<br><b>88954</b> |                                                                                                     | Rev.<br><b>X</b> |                                                                                       |  |
|                                                                                       |            |          | -                                                                      |  |         |                                   |        | <b>CUSTOMER</b>            |                                                                                                     | sheet 1 of 14    |                                                                                       |  |

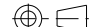


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REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE  
SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION

| KEY (SIGNAL STB) |                 |                 |
|------------------|-----------------|-----------------|
| CODE             | DIMENSIONS      |                 |
|                  | DIM "A"<br>MATE | DIM "B"<br>TAIL |
| 1                | 5.00            | 4.25            |
| 2                | 5.75            | 4.25            |
| 3                | 6.50            | 4.25            |
| 4                | 7.25            | 4.25            |
| 5                | 5.00            | 3.38            |
| 6                | 5.75            | 3.38            |
| 7                | 6.50            | 3.38            |
| 8                | 7.25            | 3.38            |
| 9                | 5.00            | 2.65            |
| 10               | 5.75            | 2.65            |
| 11               | 6.50            | 2.65            |
| 12               | 7.25            | 2.65            |
| 13               | 8.00            | 4.25            |

|                                                                                       |            |          |                                       |        |                                   |  |                                                                                                     |           |                                                                                             |  |               |
|---------------------------------------------------------------------------------------|------------|----------|---------------------------------------|--------|-----------------------------------|--|-----------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------|--|---------------|
| www.fciconnect.com                                                                    |            |          | surface3.200<br>ISO 1302              |        | tolerance std<br>ISO 406 ISO 1101 |  | projection<br> |           | mm<br> |  |               |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |                                   |  |                                                                                                     |           |                                                                                             |  |               |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                               | LINEAR | 0.X ±0.3                          |  | size A4                                                                                             | Scale 2:1 |                                                                                             |  |               |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                       |        | 0.XX ±0.13                        |  |                                                                                                     |           |                                                                                             |  |               |
| Chr                                                                                   | M.STRAWSER | 11/19/99 |                                       |        | 0.XXX ±.051                       |  |                                                                                                     |           |                                                                                             |  |               |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | 0° ±2°                                |        | ECN                               |  | -                                                                                                   |           |                                                                                             |  |               |
|                                                                                       |            |          | Product family                        |        |                                   |  | METRAL                                                                                              |           | Spec ref -                                                                                  |  |               |
|  |            |          | title METRAL SIGNAL HEADER            |        |                                   |  | dwg no 88954                                                                                        |           | Rev. X                                                                                      |  |               |
|                                                                                       |            |          | 8 MOD, 4 ROW STB                      |        |                                   |  |                                                                                                     |           |                                                                                             |  |               |
|                                                                                       |            |          | catalog no                            |        |                                   |  | -                                                                                                   |           | CUSTOMER                                                                                    |  | sheet 2 of 14 |



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| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
|------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |   |
| 88954-X01<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 |   |
|                                                | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 | 1 |
|                                                | B   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 | 1 |
|                                                | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 | 1 |
| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |   |
| 88954-X02<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 |   |
|                                                | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 | 1 |
|                                                | B   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 | 1 |
|                                                | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 | 3 |
| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |   |
| 88954-X03<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 |   |
|                                                | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2 |   |
|                                                | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2 | 2 |
|                                                | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 | 3 |
| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |   |
| 88954-X04<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4 |   |
|                                                | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 | 3 |
|                                                | B   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 | 3 |
|                                                | A   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4 | 4 |
| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |   |
| 88954-X05<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 | 3 |
|                                                | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |    |    |    |    |    |    |    |    |   |   |

|                                                                                       |            |          |                                       |        |                                   |       |                                                                                                     |              |                                                                                             |  |
|---------------------------------------------------------------------------------------|------------|----------|---------------------------------------|--------|-----------------------------------|-------|-----------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------|--|
| www.fciconnect.com                                                                    |            |          | surface 3.200<br>ISO 1302             |        | tolerance std<br>ISO 406 ISO 1101 |       | projection<br> |              | mm<br> |  |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |                                   |       |                                                                                                     |              |                                                                                             |  |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                               | LINEAR | 0.X                               | ±0.3  | size<br>A4                                                                                          | Scale<br>1:1 |                                                                                             |  |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                       |        | 0.XX                              | ±0.13 |                                                                                                     |              |                                                                                             |  |
| Chr                                                                                   | M.STRAWSER | 11/19/99 |                                       |        | 0.XXX                             | ±.051 |                                                                                                     |              |                                                                                             |  |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | 0° ±2°                                |        | ECN                               |       | -                                                                                                   |              |                                                                                             |  |
| Product family                                                                        |            |          | METRAL                                |        | Spec ref                          |       | -                                                                                                   |              |                                                                                             |  |
|  |            |          | title<br>METRAL SIGNAL HEADER         |        |                                   |       | dwg no<br>88954                                                                                     |              | Rev.<br>X                                                                                   |  |
|                                                                                       |            |          | 8 MOD, 4 ROW STB                      |        |                                   |       |                                                                                                     |              |                                                                                             |  |
|                                                                                       |            |          | catalog no                            |        |                                   |       | -                                                                                                   |              | CUSTOMER                                                                                    |  |



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| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 88954-X06<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                    | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                    | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                    | A   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X07<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |    |   |
|                                                    | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |   |
|                                                    | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2 |
|                                                    | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 88954-X08<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |    |
|                                                | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                | B   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X09<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |   |
|                                                    | C   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4 |
|                                                    | B   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4 |
|                                                    | A   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4 |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 88954-X10<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                    | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                    | B   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                    | A   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |

|                                                                                       |            |          |                                       |        |                                   |                 |                                                                                                     |              |                                                                                             |  |  |
|---------------------------------------------------------------------------------------|------------|----------|---------------------------------------|--------|-----------------------------------|-----------------|-----------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------|--|--|
| www.fciconnect.com                                                                    |            |          | surface3.200<br>ISO 1302              |        | tolerance std<br>ISO 406 ISO 1101 |                 | projection<br> |              | mm<br> |  |  |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |                                   |                 |                                                                                                     |              |                                                                                             |  |  |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                               | LINEAR | 0.X<br>±0.3                       |                 | size<br>A4                                                                                          | Scale<br>1:1 |                                                                                             |  |  |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                       |        | 0.XX<br>±0.13                     |                 |                                                                                                     |              |                                                                                             |  |  |
| Chr                                                                                   | M.STRAWSER | 11/19/99 |                                       |        | 0.XXX<br>±.051                    |                 |                                                                                                     |              |                                                                                             |  |  |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | 0° ±2°                                |        | ECN                               |                 | -                                                                                                   |              |                                                                                             |  |  |
| Product family                                                                        |            |          | METRAL                                |        | Spec ref -                        |                 |                                                                                                     |              |                                                                                             |  |  |
|  |            |          | title<br>METRAL SIGNAL HEADER         |        |                                   | dwg no<br>88954 |                                                                                                     |              | Rev.<br>X                                                                                   |  |  |
| 8 MOD, 4 ROW STB                                                                      |            |          |                                       |        |                                   |                 |                                                                                                     |              |                                                                                             |  |  |
| catalog no                                                                            |            |          | -                                     |        |                                   | CUSTOMER        |                                                                                                     |              | sheet 4 of 14                                                                               |  |  |

1

2

3

4

A

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X11<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |   |
|                                                    | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 |
|                                                    | B   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 |
|                                                    | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 |

B

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X12<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |   |
|                                                    | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 |
|                                                    | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2 |
|                                                    | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 |

C

| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X13<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |   |
|                                                | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 |
|                                                | B   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 |
|                                                | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 |

D

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 88954-X15<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                    | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                    | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                    | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X16<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |   |
|                                                    | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 |
|                                                    | B   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4 |
|                                                    | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 |

|                    |            |          |                                       |        |                                   |       |                  |              |               |
|--------------------|------------|----------|---------------------------------------|--------|-----------------------------------|-------|------------------|--------------|---------------|
| www.fciconnect.com |            |          | surface 3.200<br>ISO 1302             |        | tolerance std<br>ISO 406 ISO 1101 |       | projection<br>mm |              |               |
|                    |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |                                   |       | mm               |              |               |
| Dr                 | T.BRUNGARD | 11/19/99 | ANGULAR                               | LINEAR | 0.X                               | ±0.3  | size<br>A4       | Scale<br>1:1 |               |
| Eng                | M.STRAWSER | 11/19/99 |                                       |        | 0.XX                              | ±0.13 |                  |              |               |
| Chr                | M.STRAWSER | 11/19/99 |                                       |        | 0.XXX                             | ±.051 |                  |              |               |
| Appr               | M.STRAWSER | 02/29/00 | Product family                        |        | METRAL                            |       | Spec ref         |              |               |
| FCI                |            |          | title<br>METRAL SIGNAL HEADER         |        |                                   |       | dwg no<br>88954  |              | Rev.<br>X     |
|                    |            |          | 8 MOD, 4 ROW STB                      |        |                                   |       | CUSTOMER         |              | sheet 5 of 14 |
|                    |            |          | catalog no                            |        |                                   |       |                  |              |               |

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3PDM: Rev:X

STATUS:Released

4Printed: Aug 27, 2010

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| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X17<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |   |
|                                                    | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2 |
|                                                    | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2 |
|                                                    | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3 |

B

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 88954-X31<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                    | C   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                    | B   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                    | A   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |

C

| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 88954-X32<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                | C   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                | B   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

D

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X33<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |   |
|                                                    | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6 |
|                                                    | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6 |
|                                                    | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7 |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X34<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |   |
|                                                    | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7 |
|                                                    | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7 |
|                                                    | A   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8 |

|                    |            |          |                                       |        |                                   |       |                  |              |               |  |
|--------------------|------------|----------|---------------------------------------|--------|-----------------------------------|-------|------------------|--------------|---------------|--|
| www.fciconnect.com |            |          | surface3.200<br>ISO 1302              |        | tolerance std<br>ISO 406 ISO 1101 |       | projection<br>mm |              |               |  |
|                    |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |                                   |       |                  |              |               |  |
| Dr                 | T.BRUNGARD | 11/19/99 | ANGULAR                               | LINEAR | 0.X                               | ±0.3  | size<br>A4       | Scale<br>1:1 |               |  |
| Eng                | M.STRAWSER | 11/19/99 |                                       |        | 0.XX                              | ±0.13 |                  |              |               |  |
| Chr                | M.STRAWSER | 11/19/99 |                                       |        | 0.XXX                             | ±.051 |                  |              |               |  |
| Appr               | M.STRAWSER | 02/29/00 | Product family                        |        | METRAL                            |       | Spec ref         |              |               |  |
| FCI                |            |          | title<br>METRAL SIGNAL HEADER         |        |                                   |       | dwg no<br>88954  |              | Rev.<br>X     |  |
|                    |            |          | catalog no                            |        |                                   |       | CUSTOMER         |              | sheet 6 of 14 |  |

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3PDM: Rev:X

STATUS:Released

4Printed: Aug 27, 2010

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| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X35<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |   |
|                                                    | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7 |
|                                                    | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7 |
|                                                    | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7 |

B

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X36<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |   |
|                                                    | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6 |
|                                                    | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6 |
|                                                    | A   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6 |

C

| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X37<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |    |   |
|                                                | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |   |
|                                                | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6 |
|                                                | A   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5 |

D

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X38<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |   |
|                                                    | C   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5 |
|                                                    | B   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5 |
|                                                    | A   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5 |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X39<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |   |
|                                                    | C   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8 |
|                                                    | B   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8 |
|                                                    | A   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8 |

|                    |            |          |                                       |        |                                   |       |                  |              |               |  |
|--------------------|------------|----------|---------------------------------------|--------|-----------------------------------|-------|------------------|--------------|---------------|--|
| www.fciconnect.com |            |          | surface 3.200<br>ISO 1302             |        | tolerance std<br>ISO 406 ISO 1101 |       | projection<br>mm |              |               |  |
|                    |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |                                   |       |                  |              |               |  |
| Dr                 | T.BRUNGARD | 11/19/99 | ANGULAR                               | LINEAR | 0.X                               | ±0.3  | size<br>A4       | Scale<br>1:1 |               |  |
| Eng                | M.STRAWSER | 11/19/99 |                                       |        | 0.XX                              | ±0.13 |                  |              |               |  |
| Chr                | M.STRAWSER | 11/19/99 |                                       |        | 0.XXX                             | ±.051 |                  |              |               |  |
| Appr               | M.STRAWSER | 02/29/00 | Product family                        |        | METRAL                            |       | Spec ref         |              |               |  |
| FCI                |            |          | title<br>METRAL SIGNAL HEADER         |        |                                   |       | dwg no<br>88954  |              | Rev.<br>X     |  |
|                    |            |          | catalog no                            |        |                                   |       | CUSTOMER         |              | sheet 7 of 14 |  |

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3PDM: Rev:X

STATUS:Released

4Printed: Aug 27, 2010



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D

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
| 88954-X40<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                    | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                    | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                    | A   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 88954-X41<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                    | C   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                    | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                    | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 88954-X42<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                    | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                    | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                    | A   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 88954-X43<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                    | C   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                    | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                    | A   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    | MOD. 5 |    |    |    |    |    | MOD. 6 |    |    |    |    |    | MOD. 7 |    |    |    |    |    | MOD. 8 |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24     | 25 | 26 | 27 | 28 | 29 | 30     | 31 | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42     | 43 | 44 | 45 | 46 | 47 |
| 88954-X45<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  |
|                                                    | C   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  |
|                                                    | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  |
|                                                    | A   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  |

|                                                                                       |            |          |                                       |        |                                   |        |                                                                                                     |               |                                                                                             |  |
|---------------------------------------------------------------------------------------|------------|----------|---------------------------------------|--------|-----------------------------------|--------|-----------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------|--|
| www.fciconnect.com                                                                    |            |          | surface3.200<br>ISO 1302              |        | tolerance std<br>ISO 406 ISO 1101 |        | projection<br> |               | mm<br> |  |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |                                   |        |                                                                                                     |               |                                                                                             |  |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                               | LINEAR | 0.X                               | ±0.3   | size<br>A4                                                                                          | Scale<br>1:1  |                                                                                             |  |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                       |        | 0.XX                              | ±0.13  |                                                                                                     |               |                                                                                             |  |
| Chr                                                                                   | M.STRAWSER | 11/19/99 |                                       |        | 0.XXX                             | ±.051  |                                                                                                     | ECN<br>-      |                                                                                             |  |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | Product family                        |        |                                   | METRAL |                                                                                                     | Spec ref<br>- |                                                                                             |  |
|  |            |          | title<br>METRAL SIGNAL HEADER         |        |                                   |        | dwg no<br>88954                                                                                     |               | Rev.<br>X                                                                                   |  |
|                                                                                       |            |          | 8 MOD, 4 ROW STB                      |        |                                   |        |                                                                                                     |               |                                                                                             |  |
|                                                                                       |            |          | catalog no<br>-                       |        |                                   |        | CUSTOMER                                                                                            |               | sheet 8 of 14                                                                               |  |

1

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3

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A

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 88954-X46<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                    | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                    | B   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                    | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

B

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    | MOD. 5 |    |    |    |    |    | MOD. 6 |    |    |    |    |    | MOD. 7 |    |    |    |    |    | MOD. 8 |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24     | 25 | 26 | 27 | 28 | 29 | 30     | 31 | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42     | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X47<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |   |
|                                                    | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6 |
|                                                    | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6 |
|                                                    | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7 |

C

| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |   |
|------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |   |
| 88954-X61<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                      | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |   |
|                                                | C   | 9                      | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9 |
|                                                | B   | 9                      | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9 |
|                                                | A   | 9                      | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9 |

D

| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |
| 88954-X62<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |    |
|                                                | C   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                | B   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                | A   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |    |    |
| 88954-X63<br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |    |
|                                                | C   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                | B   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                | A   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

|                    |            |          |                                       |  |                                   |  |                  |  |               |  |
|--------------------|------------|----------|---------------------------------------|--|-----------------------------------|--|------------------|--|---------------|--|
| www.fciconnect.com |            |          | surface3.200<br>ISO 1302              |  | tolerance std<br>ISO 406 ISO 1101 |  | projection<br>mm |  | mm            |  |
|                    |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |  |                                   |  | size             |  | A4            |  |
| Dr                 | T.BRUNGARD | 11/19/99 | ANGULAR                               |  | LINEAR                            |  | 0.X              |  | ±0.3          |  |
| Eng                | M.STRAWSER | 11/19/99 |                                       |  |                                   |  | 0.XX             |  | ±0.13         |  |
| Chr                | M.STRAWSER | 11/19/99 | 0° ±2°                                |  |                                   |  | 0.XXX            |  | ±.051         |  |
| Appr               | M.STRAWSER | 02/29/00 | Product family                        |  | METRAL                            |  | Spec ref         |  | -             |  |
| FCI                |            |          | title<br>METRAL SIGNAL HEADER         |  |                                   |  | dwg no<br>88954  |  | Rev.<br>X     |  |
|                    |            |          | catalog no                            |  |                                   |  | -                |  | CUSTOMER      |  |
|                    |            |          |                                       |  |                                   |  |                  |  | sheet 9 of 14 |  |

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3PDM: Rev:X

STATUS:Released

4Printed: Aug 27, 2010



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| METRAL<br>P/N                                      | ROW                                                | CONTACT CODE<br>MOD. 1 |    |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    | MOD. 5 |    |    |    |    |    | MOD. 6 |    |    |    |    |    | MOD. 7 |    |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|----------------------------------------------------|------------------------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|
|                                                    |                                                    | 1                      | 2  | 3  | 4  | 5  | 6  | 7      | 8  | 9  | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 | 25     | 26 | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36 | 37     | 38 | 39 | 40 | 41 | 42 | 43     | 44 | 45 | 46 | 47 | 48 |    |    |    |    |    |
| 88954-X64<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D                                                  | 12                     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |    |    |    |
|                                                    | C                                                  | 11                     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |    |    |    |
|                                                    | B                                                  | 11                     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 |    |    |    |
|                                                    | A                                                  | 12                     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 |    |    |    |
| METRAL<br>P/N                                      | ROW                                                | CONTACT CODE<br>MOD. 1 |    |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    | MOD. 5 |    |    |    |    |    | MOD. 6 |    |    |    |    |    | MOD. 7 |    |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |
|                                                    |                                                    | 1                      | 2  | 3  | 4  | 5  | 6  | 7      | 8  | 9  | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 | 25     | 26 | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36 | 37     | 38 | 39 | 40 | 41 | 42 | 43     | 44 | 45 | 46 | 47 | 48 |    |    |    |    |    |
|                                                    | 88954-X65<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D                      | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |    |
|                                                    |                                                    | C                      | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| B                                                  |                                                    | 11                     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |    |    |
| A                                                  |                                                    | 11                     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |    |
| METRAL<br>P/N                                      | ROW                                                | CONTACT CODE<br>MOD. 1 |    |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    | MOD. 5 |    |    |    |    |    | MOD. 6 |    |    |    |    |    | MOD. 7 |    |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |
|                                                    |                                                    | 1                      | 2  | 3  | 4  | 5  | 6  | 7      | 8  | 9  | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 | 25     | 26 | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36 | 37     | 38 | 39 | 40 | 41 | 42 | 43     | 44 | 45 | 46 | 47 | 48 |    |    |    |    |    |
|                                                    | 88954-X66<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D                      | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |    |
|                                                    |                                                    | C                      | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| B                                                  |                                                    | 10                     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| A                                                  |                                                    | 10                     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |    |
| METRAL<br>P/N                                      | ROW                                                | CONTACT CODE<br>MOD. 1 |    |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    | MOD. 5 |    |    |    |    |    | MOD. 6 |    |    |    |    |    | MOD. 7 |    |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |
|                                                    |                                                    | 1                      | 2  | 3  | 4  | 5  | 6  | 7      | 8  | 9  | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 | 25     | 26 | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36 | 37     | 38 | 39 | 40 | 41 | 42 | 43     | 44 | 45 | 46 | 47 | 48 |    |    |    |    |    |
|                                                    | 88954-X67<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D                      | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                    |                                                    | C                      | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| B                                                  |                                                    | 10                     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| A                                                  |                                                    | 9                      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |    |    |
| METRAL<br>P/N                                      | ROW                                                | CONTACT CODE<br>MOD. 1 |    |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    | MOD. 5 |    |    |    |    |    | MOD. 6 |    |    |    |    |    | MOD. 7 |    |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |
|                                                    |                                                    | 1                      | 2  | 3  | 4  | 5  | 6  | 7      | 8  | 9  | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 | 25     | 26 | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36 | 37     | 38 | 39 | 40 | 41 | 42 | 43     | 44 | 45 | 46 | 47 | 48 |    |    |    |    |    |
|                                                    | 88954-X68<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D                      | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                    |                                                    | C                      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |    |
| B                                                  |                                                    | 9                      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |    |    |
| A                                                  |                                                    | 9                      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |    |    |

|                                                                                       |            |          |                                                   |  |                                   |          |                                                                                                     |  |                                                                                             |              |                |
|---------------------------------------------------------------------------------------|------------|----------|---------------------------------------------------|--|-----------------------------------|----------|-----------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--------------|----------------|
| www.fciconnect.com                                                                    |            |          | surface3.200<br>ISO 1302                          |  | tolerance std<br>ISO 406 ISO 1101 |          | projection<br> |  | mm<br> |              |                |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED             |  |                                   |          |                                                                                                     |  |                                                                                             |              |                |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR<br><br>LINEAR                             |  | 0.X                               |          | ±0.3                                                                                                |  | size<br>A4                                                                                  | Scale<br>1:1 |                |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                                   |  | 0.XX                              |          | ±0.13                                                                                               |  |                                                                                             |              |                |
| Chr                                                                                   | M.STRAWSER | 11/19/99 |                                                   |  | 0.XXX                             |          | ±.051                                                                                               |  |                                                                                             |              |                |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | 0° ±2°                                            |  |                                   |          | ECN                                                                                                 |  | -                                                                                           |              |                |
| Product family                                                                        |            |          | METRAL                                            |  |                                   | Spec ref |                                                                                                     |  | -                                                                                           |              |                |
|  |            |          | title<br>METRAL SIGNAL HEADER<br>8 MOD, 4 ROW STB |  |                                   |          | dwg no<br>88954                                                                                     |  |                                                                                             | Rev.         |                |
|                                                                                       |            |          |                                                   |  |                                   |          |                                                                                                     |  |                                                                                             | X            |                |
|                                                                                       |            |          | catalog no                                        |  |                                   |          | -                                                                                                   |  | CUSTOMER                                                                                    |              | sheet 10 of 14 |

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D

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |    |
| 88954-X69<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |    |    |
|                                                    | C   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                    | B   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                    | A   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |
| 88954-X70<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |    |
|                                                    | C   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                    | B   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                    | A   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |    |    |
| 88954-X71<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |    |
|                                                    | C   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |    |
|                                                    | B   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                    | A   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 7      | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17     | 18 | 19 | 20 | 21 | 22     | 23 | 24 | 25 | 26 | 27     | 28 | 29 | 30 | 31 | 32     | 33 | 34 | 35 | 36 | 37     | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |
| 88954-X72<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |    |
|                                                    | C   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                    | B   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                    | A   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |   |
| 88954-X73<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |   |
|                                                    | C   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9 |
|                                                    | B   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |   |
|                                                    | A   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9 |

|                                                                                       |            |          |                                                          |     |                                   |  |                                                                                                     |       |                                                                                             |                  |
|---------------------------------------------------------------------------------------|------------|----------|----------------------------------------------------------|-----|-----------------------------------|--|-----------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------|------------------|
| www.fciconnect.com                                                                    |            |          | surface3.200<br>ISO 1302                                 |     | tolerance std<br>ISO 406 ISO 1101 |  | projection<br> |       | mm<br> |                  |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                    |     |                                   |  |                                                                                                     |       |                                                                                             |                  |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                                                  |     | LINEAR                            |  | 0.X                                                                                                 | ±0.3  | size<br>A4                                                                                  | Scale<br>1:1     |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                                          |     |                                   |  | 0.XX                                                                                                | ±0.13 |                                                                                             |                  |
| Chr                                                                                   | M.STRAWSER | 11/19/99 | 0°                                                       | ±2° |                                   |  | 0.XXX                                                                                               | ±.051 | ECN                                                                                         | -                |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | Product family                                           |     |                                   |  | METRAL                                                                                              |       | Spec ref -                                                                                  |                  |
|  |            |          | title<br><b>METRAL SIGNAL HEADER</b><br>8 MOD, 4 ROW STB |     |                                   |  | dwg no<br><b>88954</b>                                                                              |       |                                                                                             | Rev.<br><b>X</b> |
|                                                                                       |            |          | catalog no -                                             |     |                                   |  | <b>CUSTOMER</b>                                                                                     |       | sheet 11 of 14                                                                              |                  |

2

3PDM: Rev:X



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| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |
| 88954-X75<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |    |
|                                                    | C   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                    | B   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                    | A   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 88954-X76<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                    | C   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                    | B   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                    | A   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 88954-X77<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                    | C   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                    | B   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                    | A   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 88954-X78<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                    | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                    | B   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                    | A   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 88954-X79<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |    |
|                                                    | C   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                    | B   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                    | A   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |

|                                                                                       |            |          |                                       |     |                                   |  |                                                                                                     |       |                                                                                             |                |
|---------------------------------------------------------------------------------------|------------|----------|---------------------------------------|-----|-----------------------------------|--|-----------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------|----------------|
| www.fciconnect.com                                                                    |            |          | surface 3.200<br>ISO 1302             |     | tolerance std<br>ISO 406 ISO 1101 |  | projection<br> |       | mm<br> |                |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |     |                                   |  |                                                                                                     |       |                                                                                             |                |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                               |     | LINEAR                            |  | 0.X                                                                                                 | ±0.3  | size<br>A4                                                                                  | Scale<br>1:1   |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                       |     |                                   |  | 0.XX                                                                                                | ±0.13 |                                                                                             |                |
| Chr                                                                                   | M.STRAWSER | 11/19/99 | 0°                                    | ±2° |                                   |  | 0.XXX                                                                                               | ±.051 | ECN                                                                                         | -              |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | Product family                        |     |                                   |  | METRAL                                                                                              |       | Spec ref -                                                                                  |                |
|  |            |          | title<br>METRAL SIGNAL HEADER         |     |                                   |  | dwg no<br>88954                                                                                     |       |                                                                                             | Rev.<br>X      |
|                                                                                       |            |          | 8 MOD, 4 ROW STB                      |     |                                   |  | CUSTOMER                                                                                            |       |                                                                                             | sheet 12 of 14 |
|                                                                                       |            |          | catalog no -                          |     |                                   |  |                                                                                                     |       |                                                                                             |                |



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| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |    |
| 88954-X80<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |    |
|                                                    | C   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |    |
|                                                    | B   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |    |    |
|                                                    | A   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |    |
| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |    |
| 88954-X81<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |    |
|                                                    | C   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                    | B   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |    |
|                                                    | A   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |    |
| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |    |
| 88954-X82<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                    | C   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                    | B   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |    |
|                                                    | A   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |    |
| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |    |
| 88954-X83<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |    |
|                                                    | C   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |    |
|                                                    | B   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |    |
|                                                    | A   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |    |
| METRAL<br>P/N                                      | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    | MOD. 5 |    |    |    |    | MOD. 6 |    |    |    |    | MOD. 7 |    |    |    |    | MOD. 8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                    |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26     | 27 | 28 | 29 | 30 | 31     | 32 | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |    |    |
| 88954-X84<br><br>SEE NOTE 9<br>LEAD FREE<br>OPTION | D   | 1                      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |    |
|                                                    | C   | 2                      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |    |
|                                                    | B   | 2                      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |    |
|                                                    | A   | 2                      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |    |



|                                                                                       |            |          |                                                   |        |                                   |  |                                                                                                     |              |                                                                                             |                |
|---------------------------------------------------------------------------------------|------------|----------|---------------------------------------------------|--------|-----------------------------------|--|-----------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------|----------------|
| www.fciconnect.com                                                                    |            |          | surface 3.200<br>ISO 1302                         |        | tolerance std<br>ISO 406 ISO 1101 |  | projection<br> |              | mm<br> |                |
|                                                                                       |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED             |        |                                   |  |                                                                                                     |              |                                                                                             |                |
| Dr                                                                                    | T.BRUNGARD | 11/19/99 | ANGULAR                                           | LINEAR | 0.X ±0.3                          |  | size<br>A4                                                                                          | Scale<br>1:1 |                                                                                             |                |
| Eng                                                                                   | M.STRAWSER | 11/19/99 |                                                   |        | 0.XX ±0.13                        |  |                                                                                                     |              |                                                                                             |                |
| Chr                                                                                   | M.STRAWSER | 11/19/99 |                                                   |        | 0°. ±2° 0.XXX ±.051               |  |                                                                                                     | ECN -        |                                                                                             |                |
| Appr                                                                                  | M.STRAWSER | 02/29/00 | Product family                                    |        |                                   |  | METRAL                                                                                              | Spec ref     |                                                                                             | -              |
|  |            |          | title<br>METRAL SIGNAL HEADER<br>8 MOD, 4 ROW STB |        |                                   |  | dwg no<br>88954                                                                                     | Rev.<br>X    |                                                                                             |                |
|                                                                                       |            |          |                                                   |        |                                   |  |                                                                                                     |              |                                                                                             |                |
|                                                                                       |            |          | catalog no                                        |        |                                   |  | -                                                                                                   | CUSTOMER     |                                                                                             | sheet 13 of 14 |

## PRODUCT NUMBER

88954-XYX (SEE SHEET 1)

88954-XYXLF (SEE SHEET 1)

## NOTES:

1. FOR DIM A AND B SEE SHEET 2 AND UP.
2. BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
3. PIN MATERIAL:  
PHOSPHOR BRONZE.
4. PLATING ON SOLDER TO BOARD:  
88954 -XYX IS SnPb  
88954-XYXLF IS SN (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE  
LEVEL SHOWN IN TABLE.
5. PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
6. ALL PRODUCTS WITH PART NUMBERS SHOWN IN  
SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES.  
IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P"  
WILL BE ADDED TO THE END OF THE PART NUMBER.  
EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF
7. PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-074
8. THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE  
EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS  
AS DESCRIBED IN GS-22-008.
9. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.  
EXAMPLE: 88954-X01LF
10. ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING  
(DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE  
TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR  
VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1---  
AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT  
SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR  
NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

|                    |            |          |                                       |        |                                   |       |                  |              |
|--------------------|------------|----------|---------------------------------------|--------|-----------------------------------|-------|------------------|--------------|
| www.fciconnect.com |            |          | surface 3.200<br>ISO 1302             |        | tolerance std<br>ISO 406 ISO 1101 |       | projection<br>mm |              |
|                    |            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |                                   |       |                  |              |
| Dr                 | T.BRUNGARD | 11/19/99 | ANGULAR                               | LINEAR | 0.X                               | ±0.3  | size<br>A4       | Scale<br>1:1 |
| Eng                | M.STRAWSER | 11/19/99 |                                       |        | 0.XX                              | ±0.13 |                  |              |
| Chr                | M.STRAWSER | 11/19/99 |                                       |        | 0.XXX                             | ±.051 |                  |              |
| Appr               | M.STRAWSER | 02/29/00 | Product family                        |        | METRAL                            |       | Spec ref         |              |
| FCI                |            |          | title                                 |        | METRAL SIGNAL HEADER              |       | dwg no           |              |
|                    |            |          |                                       |        | 8 MOD, 4 ROW STB                  |       | 88954            |              |
|                    |            |          |                                       |        | catalog no                        |       | Rev.             |              |
|                    |            |          |                                       |        | -                                 |       | X                |              |
|                    |            |          |                                       |        | CUSTOMER                          |       | sheet 14 of 14   |              |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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