



## Main

|                           |   |
|---------------------------|---|
| Range of product          | Preventa Safety automation  |
| Product or component type | Safe input expansion module   |
| Device short name         | XPSMCM  |
| Electrical connection     | Screw terminal  |
| [Us] rated supply voltage | 24 V (- 20...20 %) DC   |
| Number of inputs          | 16 digital  |
| Number of outputs         | 4 test line control   |
| Discrete input type       | Isolated  |
| Discrete output type      | PNP   |
| Function of module        | Discrete input monitoring safety detection<br>Discrete input monitoring safety dialogue |

## Complementary

|                            |  |
|----------------------------|--|
| Power consumption in W     | <= 3 W   |
| Power dissipation in W     | 3 W  |
| Integrated connection type | Backplane expansion bus  |
| Number of terminal blocks  | 6  |
| Connections - terminals    | 2-wire captive screw clamp terminals, removable terminal block<br>1-wire captive screw clamp terminals, removable terminal block   |
| Safety level               | Can reach SIL 3 conforming to EN/IEC 61508<br>SILCL 3 conforming to IEC 62061<br>Can reach category 4 conforming to EN/ISO 13849-1<br>Can reach PL = e conforming to EN/ISO 13849-1  |
| Quality labels             | CE   |
| Discrete input voltage     | 24 V DC  |
| Local signalling           | 1 LED green with PWR marking power ON<br>1 LED green with RUN marking RUN (status)<br>1 LED red with E IN marking internal error<br>1 LED red with E EX marking external error<br>2 LEDs orange with ADDR marking node address<br>16 LEDs yellow with IN marking input status  |
| Cable cross section        | (0.2...1.5 mm <sup>2</sup> - AWG 24...AWG 16) flexible cable without cable end<br>(0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14) flexible cable without cable end<br>(0.25...1 mm <sup>2</sup> - AWG 23...AWG 18) flexible cable with cable end, without bezel<br>(0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14) flexible cable with cable end, with bezel<br>(0.5...1.5 mm <sup>2</sup> - AWG 20...AWG 16) flexible cable with cable end, with double bezel<br>(0.2...1 mm <sup>2</sup> - AWG 24...AWG 18) solid cable without cable end<br>(0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14) solid cable without cable end<br>(0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14) flexible cable with cable end, without bezel |
| Mounting support           | Omega 35 mm DIN rail conforming to EN 50022  |
| Depth                      | 0.89 in (22.5 mm)  |
| Height                     | 3.9 in (99 mm)   |
| Width                      | 4.51 in (114.5 mm)   |
| Product weight             | 0.55 lb(US) (0.25 kg)  |

## Environment

|                        |   |
|------------------------|---|
| standards              | EN/IEC 61508<br>EN/IEC 61800-5-1<br>EN/ISO 13849-1<br>IEC 62061 |
| product certifications | CULus<br>TÜV<br>RCM   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

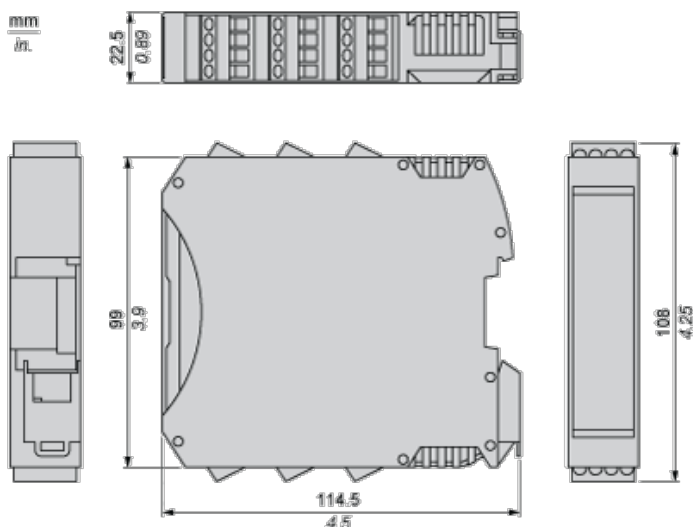
|  |   |
|--|---|
| IP degree of protection                | IP20 enclosure  |
| ambient air temperature for operation  | 14...131 °F (-10...55 °C)   |
| ambient air temperature for storage    | -20...85 °C   |
| relative humidity                      | 10...95 %   |
| pollution degree                       | 2   |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to EN/IEC 61800-5-1   |
| safety reliability data                | DC > 99 %<br>MTTFd < 100 years at high<br>PFHd = 7.09E-9 1/h  |
| insulation                             | 250 V AC between power supply and housing conforming to EN/IEC 61800-5-1  |
| overvoltage category                   | II  |
| electromagnetic compatibility          | Electrostatic discharge immunity test - test level 6 kV, on contact conforming to EN/IEC 61000-4-2<br>Electrostatic discharge immunity test - test level 20 kV, on air conforming to EN/IEC 61000-4-2<br>Susceptibility to electromagnetic fields - test level 10 V/m, 80...1000 MHz conforming to EN/IEC 61000-4-3<br>Susceptibility to electromagnetic fields - test level 30 V/m, 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3 |
| vibration resistance                   | +/-0.35 mm (f = 10...55 Hz) conforming to EN/IEC 61496-1  |
| shock resistance                       | 10 gn (duration = 16 ms) shocks : 1000 shocks on each axis EN/IEC 61496-1   |
| service life                           | 20 yr   |

## Offer Sustainability

|  |  |
|--|--|
| Green Premium product  | Green Premium product  |
| Compliant - since 1450 - Schneider Electric declaration of conformity  | Compliant - since 1450 - Schneider Electric declaration of conformity  |
| Reference not containing SVHC above the threshold  | Reference not containing SVHC above the threshold  |
| Available  | Available  |
| Available  | Available  |
| WARNING: This product can expose you to chemicals including:   | WARNING: This product can expose you to chemicals including:   |
| Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

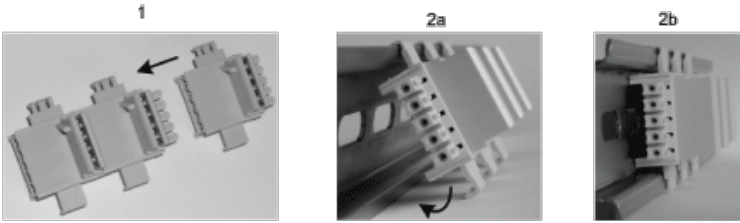
## Dimensions

### Screw Terminal



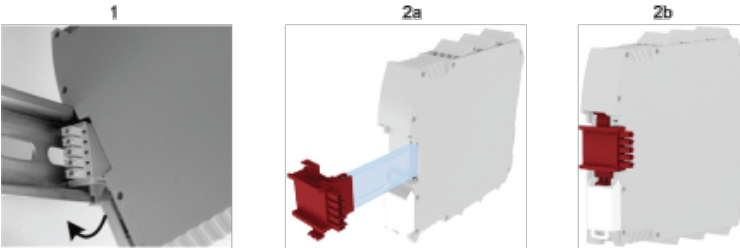
## Mounting Safety Controller CPU with Module(s)

### Mount BackPlane Connector on Rail



- 1 : Connect as much Backplane Connector as module to be install.
- 2 : Fix the connectors to the rail (Top first).

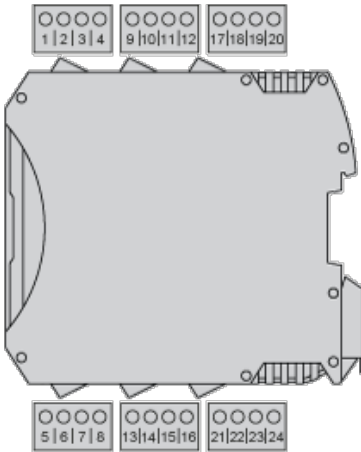
### Mount Safety Controller CPU with Other Module(s)



- 1 : Mount controller CPU and modules on rail.
- 2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

## Wiring

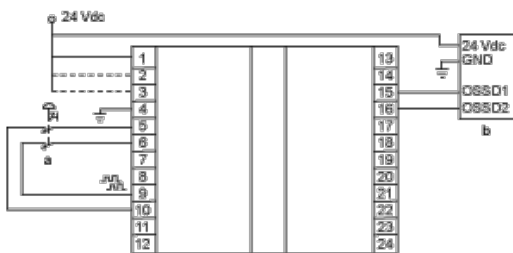
### Terminal Designation



| Terminal | Signal     | Description                   |
|----------|------------|-------------------------------|
| 1        | 24 VDC     | 24 Vdc power supply           |
| 2        | NODE_ADDR0 | Node selection                |
| 3        | NODE_ADDR1 |                               |
| 4        | 0 VDC      | 0 Vdc power supply            |
| 5        | INPUT1     | Digital input 1               |
| 6        | INPUT2     | Digital input 2               |
| 7        | INPUT3     | Digital input 3               |
| 8        | INPUT4     | Digital input 4               |
| 9        | OUT_TEST1  | Short circuit detected output |
| 10       | OUT_TEST2  |                               |
| 11       | OUT_TEST3  |                               |
| 12       | OUT_TEST4  |                               |

|    |         |                  |
|----|---------|------------------|
| 13 | INPUT5  | Digital input 5  |
| 14 | INPUT6  | Digital input 6  |
| 15 | INPUT7  | Digital input 7  |
| 16 | INPUT8  | Digital input 8  |
| 17 | INPUT9  | Digital input 9  |
| 18 | INPUT10 | Digital input 10 |
| 19 | INPUT11 | Digital input 11 |
| 20 | INPUT12 | Digital input 12 |
| 21 | INPUT13 | Digital input 13 |
| 22 | INPUT14 | Digital input 14 |
| 23 | INPUT15 | Digital input 15 |
| 24 | INPUT16 | Digital input 16 |

### Wiring Example



a : Emergency stop

b : Light curtain



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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- 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;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.