

Pushbutton Switches, 16mm, Illuminated

FEATURES:

Command Series Illuminated Pushbuttons are instrument-grade switches having snap-acting double break contacts, silver clad and gold plated to satisfy the requirements of logic level and power switching. **Contacts are electrically independent of one another and are isolated from the lamp circuit.** Tactile feel is excellent and maintained models have latching feature for visible indication of status. Uses T1-3/4 midget flanged base lamp, relampable from front of panel. Legends may be provided using printed transparent tape affixed to inner button. UL Recognized, File E-51302, CSA LR-20479

Note: Recommended panel thickness 4mm max.

MATERIAL SPECIFICATIONS:

ContactsGold plate over silver clad

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC or Peak AC
 5 A @ 250 VAC or 24 VDC (Resistive)
 Initial Contact Resistance20 Milliohms max.
 Insulation Resistance100 Megohms min.
 Dielectric Strength1,500 VAC
 Life Expectancy100,000 Operations @ rated current

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +122°F (-20°C to +50°C)
 OiltightIP65, NEMA 1, 12 & 13
 Non-oiltight.....IP40

ROUND

Lens set and lamps not supplied.



164EL11

Application Note: For lens sets, accessories and lamps, see page I18 to I20



Non-Oiltight		Oiltight		Contact	Action
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch		
1437569-2	164EL11	4-1437569-2	165EL11	1 N.O. & N.C.	Momentary
1437569-3	164EL22	4-1437569-3	165EL22	2 N.O. & N.C.	Momentary
—	164EL33	—	165EL33	3 N.O. & N.C.	Momentary
1437569-5	164EL511	4-1437569-4	165EL511	1 N.O. & N.C.	Push on/Push off
1437569-6	164EL522	4-1437569-5	165EL522	2 N.O. & N.C.	Push on/Push off
1437569-7	164EL533	—	165EL533	3 N.O. & N.C.	Push on/Push off

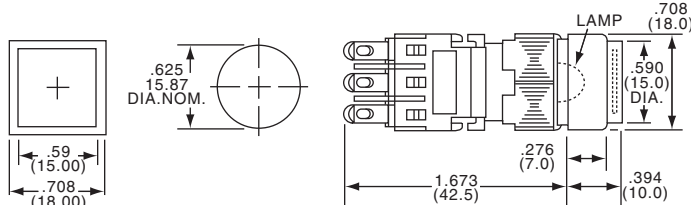
SQUARE

Lens set and lamps not supplied.



164SL11

Application Note: For lens sets, accessories and lamps, see page I18 to I20



Non-Oiltight		Oiltight		Contact	Action
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch		
2-1437569-5	164SL11	4-1437569-9	165SL11	1 N.O. & N.C.	Momentary
2-1437569-6	164SL22	5-1437569-0	165SL22	2 N.O. & N.C.	Momentary
2-1437569-7	164SL33	—	165SL33	3 N.O. & N.C.	Momentary
2-1437569-9	164SL511	5-1437569-1	165SL511	1 N.O. & N.C.	Push on/Push off
3-1437569-0	164SL522	5-1437569-2	165SL522	2 N.O. & N.C.	Push on/Push off
3-1437569-1	164SL533	—	165SL533	3 N.O. & N.C.	Push on/Push off

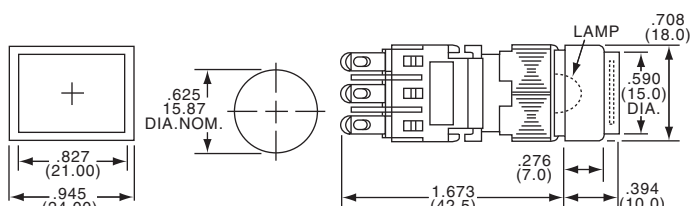
RECTANGULAR

Lens set and lamps not supplied.



164TL11

Application Note: For lens sets, accessories and lamps, see page I18 to I20



Non-Oiltight		Oiltight		Contact	Action
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch		
3-1437569-4	164TL11	5-1437569-4	165TL11	1 N.O. & N.C.	Momentary
3-1437569-5	164TL22	5-1437569-5	165TL22	2 N.O. & N.C.	Momentary
3-1437569-6	164TL33	—	165TL33	3 N.O. & N.C.	Momentary
3-1437569-8	164TL511	5-1437569-6	165TL511	1 N.O. & N.C.	Push on/Push off
3-1437569-9	164TL522	5-1437569-7	165TL522	2 N.O. & N.C.	Push on/Push off
4-1437569-0	164TL533	5-1437569-8	165TL533	3 N.O. & N.C.	Push on/Push off

Selector or Keylock Switches, 16mm

FEATURES:

Command Series Selector & Keylock Switches are 2 & 3-position rotary types with snap-acting double break contacts. All models have 90° throw. Contacts are silver-clad and gold-plated to provide reliable operation at logic levels as well as for power switching applications. Contacts are electrically isolated from one another. Keylock types are supplied with two keys. Oiltight models meet NEMA 1, 12 & 13 requirements.

UL Recognized File E-51302

CSA LR-20479

MATERIAL SPECIFICATIONS:

ContactsGold plate over silver clad

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC or Peak AC
 5 A @ 250 VAC or 24 VDC (Resistive)
 Initial Contact Resistance20 Milliohms max.
 Insulation Resistance100 Megohms min.
 Dielectric Strength1,500 VAC
 Life Expectancy100,000 Operations at rated current

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +158°F (-20°C to +70°C)

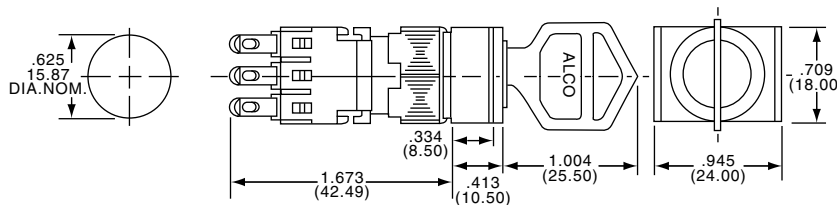
SELECTORS



164P2B11

Non-Oiltight		Oiltight		Contact	Action
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch		
2-1437569-0	164P2B11	4-1437569-8	165P2B11	1N.O. & N.C.	2 Pos. Maintained
2-1437569-1	164P2B22	—	165P2B22	2N.O. & N.C.	2 Pos. Maintained
—	164P2B33	—	165P2B33	3N.O. & N.C.	2 Pos. Maintained
1-1437569-9	164P0B22	—	—	2N.O. & N.C.	2 Pos. Momentary Right
—	164P0B33	—	—	3N.O. & N.C.	2 Pos. Momentary Right
2-1437569-2	164P3B22	—	165P3B22	2N.O. & N.C.	3 Pos. Center Off/Maintained
2-1437569-3	164P3B33	—	165P3B33	3N.O. & N.C.	3 Pos. Center Off

KEYLOCKS



164J2A11

2 Position Keylocks						3 Position Keylocks					
Non-Oiltight		Oiltight		Contact	Action	Non-Oiltight		Oiltight		Contact	Action
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch			Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch		
1-1437569-1	164J2A11	4-1437569-7	165J2A11	1N.O. & N.C.	Maintained, key pull left	—	164J3A22	—	165J3A22	2N.O. & N.C.	Maintained, key pull left
1-1437569-2	164J2A22	—	165J2A22	2N.O. & N.C.	Maintained, key pull left	1-1437569-5	164J3A33	—	165J3A33	3N.O. & N.C.	Maintained, key pull left
—	164J2A33	—	165J2A33	3N.O. & N.C.	Maintained, key pull left	—	164J3E22	—	165J3E22	2N.O. & N.C.	Maintained, key pull center
1-1437569-3	164J2B11	—	165J2B11	1N.O. & N.C.	Maintained, key pull both	—	164J3E33	—	165J3E33	3N.O. & N.C.	Maintained, key pull center
1-1437569-4	164J2B22	—	165J2B22	2N.O. & N.C.	Maintained, key pull both	1-1437569-6	164J3C22	—	165J3C22	2N.O. & N.C.	Maintained, key pull all
—	164J2B33	—	165J2B33	3N.O. & N.C.	Maintained, key pull both	—	164J3C33	—	165J3C33	3N.O. & N.C.	Maintained, key pull all
1437569-9	164J0A11	—	—	1N.O. & N.C.	Momentary right, key pull left	—	164J7A22	—	165J7A22	2N.O. & N.C.	Momentary right, key pull left
1-1437569-0	164J0A22	—	—	2N.O. & N.C.	Momentary right, key pull left	1-1437569-8	164KA	—	—	—	Spare Keys
—	164J0A33	—	—	3N.O. & N.C.	Momentary right, key pull left	—	—	—	—	—	—

Pilot Light Indicators or Lens Sets, 16mm

FEATURES

Command Series Pilot Light Indicators match the appearance of both lighted and unlighted Command Series pushbuttons. The same lens buttons are snapped into place and legends may be easily inserted. Illumination is from T - 1 3/4 midget flange based lamps, which are installed from the front panel. Lenses and lamps are ordered separately. Oiltight models meet NEMA 1, 12 & 13 requirements. UL File No. E-51302
CSA LR-20479

TYPICAL PERFORMANCE CHARACTERISTICS:

LAMP DISSIPATION 1.2W MAX.
Insulation Resistance100 Megohms min.
Dielectric Strength1,500 VAC

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +122°F (-20°C to +50°C)

PILOT LIGHT INDICATORS



164EZ

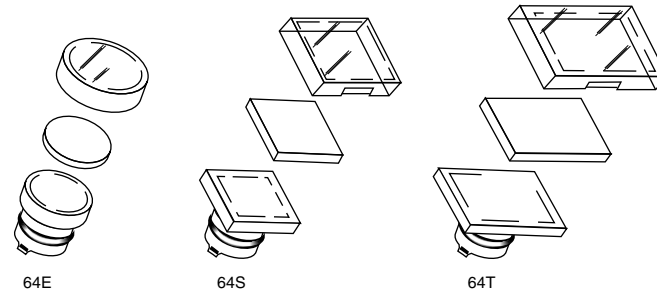


Lens set and lamp not supplied, order separately, see below.
U.L. Recognized E-51302

LENS SET



64E



Model	Description
64E(*)	Round lens set
64S(*)	Square lens set
64T(*)	Rectangular lens set

All fit oiltight and non-oiltight indicators.
(*) Specify color by adding suffix number: (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (9) White/Clear.

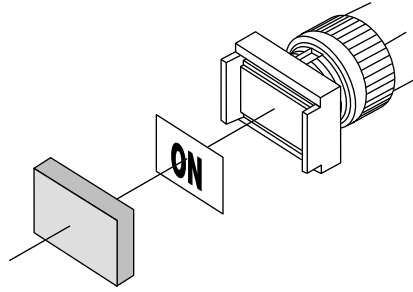
Application Note:
Lens sets include, button, diffuser and cap.

Accessories and Tools, 16mm

FEATURES:

Standard Legends on Transparent Adhesive Tape are available for Illuminated Command Series switches and pilot lights. Legends are easily affixed to the translucent white button and are protected by the lens cap. The black lettering is back-lit by the lamp and the inscription is visible through the lens cap. This method of providing legends is also suitable in some applications using non-illuminated white (clear), yellow or orange lens caps.

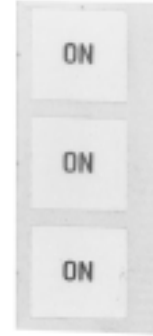
Standard legends, listed below, are intended to be used with round, square or rectangular pushbuttons and pilot lights. Sold only in sheets of 10 identical legends.



Tyco Electronics	Alcoswitch	
6-1437569-3	616	On
6-1437569-2	616	Off

Note: Model numbers must include complete legend nomenclature.

LEGEND MODEL NUMBERS



Legend (film)

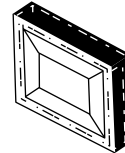
Accessories

MOUNTING WRENCH

Sturdy tubular brass wrench fits mounting nuts on all Command Series switches.



Tyco Electronics	Alcoswitch
6-1437569-0	601-AG

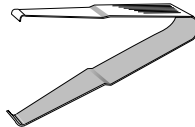


SPLASH PROOF SEAL
Flexible clear seal fits all rectangular pushbuttons and pilot lights.

Tyco Electronics	Alcoswitch
9-1437569-2	668

LENS REMOVER

Dual purpose metal tool facilitates removal of lenses, buttons.

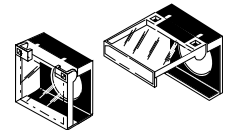


Tyco Electronics	Alcoswitch
6-1437569-9	618-AG

FLIP COVER SWITCH GUARD

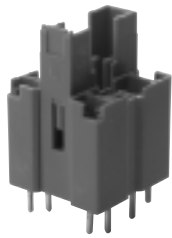
669 used with rectangular series pushbutton switches.
671 used with square and round series pushbutton switches.

Tyco Electronics	Alcoswitch
9-1437569-4	669 Rectangular
9-1437569-3	671-AG Square and Round

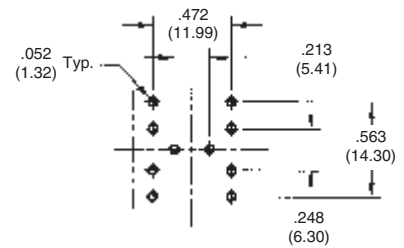
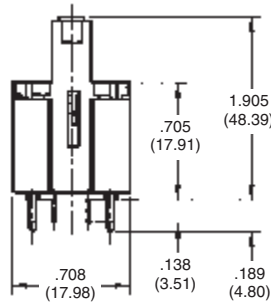


Socket for 16mm Command Series Switches

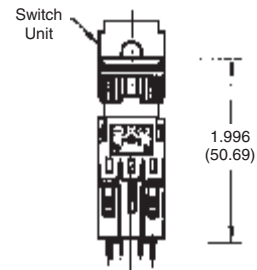
697-PL



9-1437569-5



Recommended PCB Footprint



T1 3/4 Series Midget Incandescent Lamps

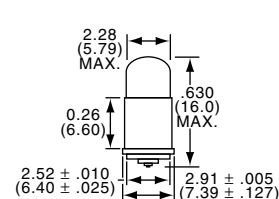
Average Life ratings indicate the lamp life obtained in controlled laboratory conditions while operating lamps at the design voltage (AC) (DC will shorten life by 50%). The life of a subminiature lamp is inversely proportional to the 12th power of the applied voltage.

ALCOSWITCH subminiature lamps are a "T" class, meaning that the envelopes are made of glass tubing, the "T" number indicating the diameter of the tubing in eighths of an inch.

Command Series

Tyco Electronics	Alcoswitch	Rated Volts	Design Amps	Rated MSCP	Average Rated Hours
9-1437620-6	7333	5.0	.060	.05	40,000
1-1437620-8	815-AG	—	.115	.147	40,000
1437620-7	381-AG	6.3	.20	.40	50,000
1437620-8	382-AG	14.0	.08	.30	50,000
1437620-9	385	28.0	.04	.20	50,000
1-1437620-1	387	28.0	.04	.30	25,000
1437620-5	327-AG	28.0	.04	.34	7,000

FLANGE BASE- T1 3/4





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

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- Поставка более 17-ти миллионов наименований электронных компонентов;
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- 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.);

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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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