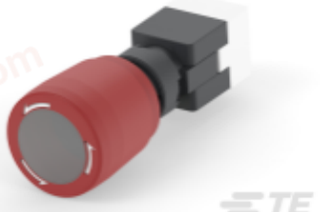
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Key Features

- IP65 Rated
- IEC 60947-5-1 & IEC 60947-5-5
- 16mm mounting hole
- Simple Easy Mounting
- Solder to wire or quick connect disconnect terminals
- Gold Plating
- Illuminated & Non-Illuminated
- UL & TUV Agency Approval
- LED & Incandescent
- High Actuation Force

ALCOSWITCH Pushbutton Emergency Stop Switch Illuminated and Non-Illuminated



PBES16L



PBES16N

The PBES16 Series Pushbutton Emergency Stop Switch is offered as an Illuminated and Non-Illuminated switch. This series has multiple lighting options, agency approvals, and meets IEC 60947-5-1 & IEC 60947-5-5 standards. This switch is offered with two different actuator button styles. The PBES16 Series has a 20N actuation force for ruggedized applications and to avoid accidental actuations and is IP65 rated to withstand harsh environment.

Product Specification			
Mechanical Life		>100,000 Operations	
Electrical Life		>50,000 Operations	
Motion Tolerance		< 20 Operations/Minute (Mechanical and Electrical Life)	
Degree of Protection		IP65	
Panel Thickness		0.5mm to 5mm	
Mounting Torque		1.1 N-m	
Maximum Insulation Voltage		1500VAC 60Hz, 10mA, 1 Minute	
Insulation Resistance		100MΩ @500 VDC, 100mA, 1 minute	
Storage Temperature		-40˚C to +85˚C	
Operating Temperature		-25˚C to +55˚C (-25˚C to +70˚C Without Lamp)	
Contact Resistance		<= 50 mΩ (Initial)	
Operating Forces		Push - Lock 20+0/-10N, Turn – Reset 0.06 N-m	
Operating Travel	**PBES16L**	Push – Lock 3.6 ± 0/-0.6 mm, Turn – Reset CCW 30˚	
	PBES16N	Push – Lock 3.3 ± 0.3 mm, Turn – Reset CW 30˚	
Pollution Degree		3	
Electrical Ratings			
Rated Insulation Voltage (Ui)		300V	
Conventional Enclosed Thermal Current (Ithe)		5A	
Rated Operational Voltage (Ue)		125 V	250 V
Utilization Category		**Rated Operational Current (Ie)**	
AC-15		3	1.5
DC-13		0.22	0.11

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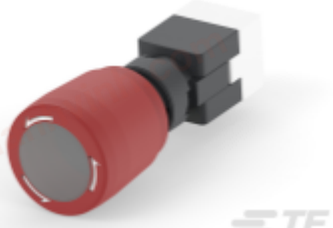
Dimensions in millimetres unless otherwise specified

Dimensions Shown for reference purposes only. Specifications subject to change

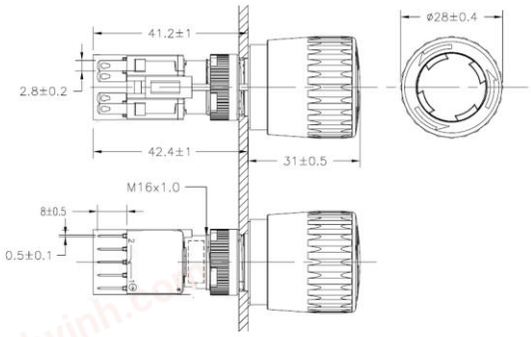
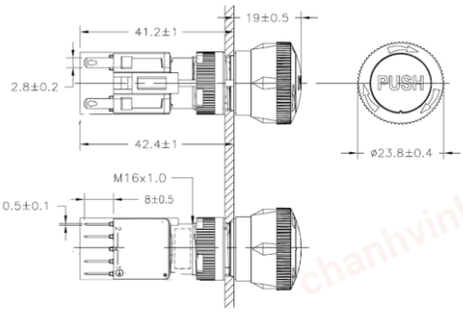
For Email, phone or live chat, go to: www.te.com/help

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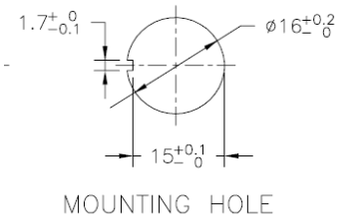
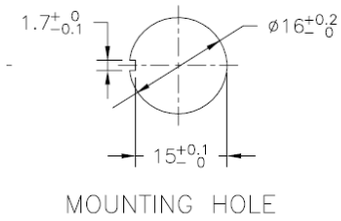
Switch Styles

PBES16L – Illuminated (with or without lamp)	PBES16N - Non-Illuminated
	

Actuator Button Shape

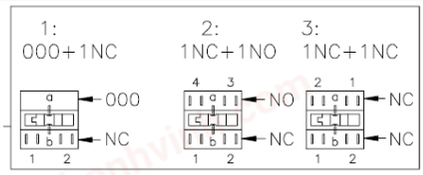
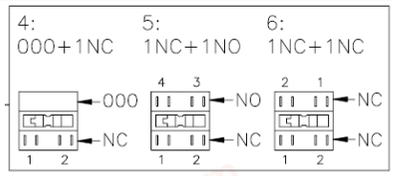
PBES16L – Illuminated (with or without lamp)	PBES16N - Non-Illuminated
	

Mounting Hole Shape

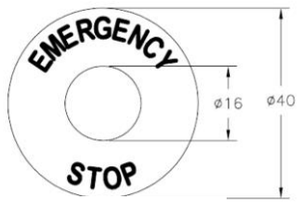
PBES16L – Illuminated (with or without lamp)	PBES16N - Non-Illuminated
	

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Switch Functions

PBES16L – Illuminated (with or without lamp)	PBES16N - Non-Illuminated
	

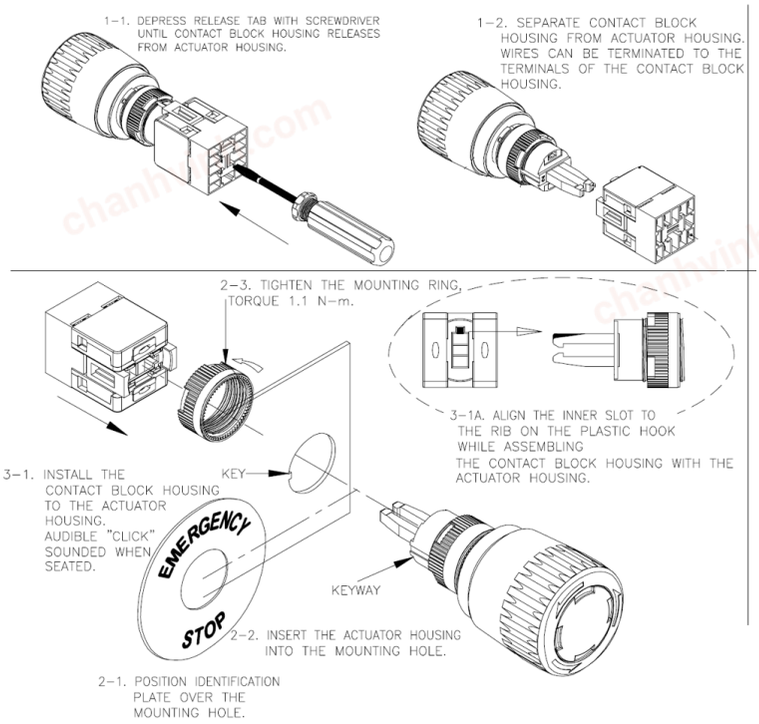
Identification Plate

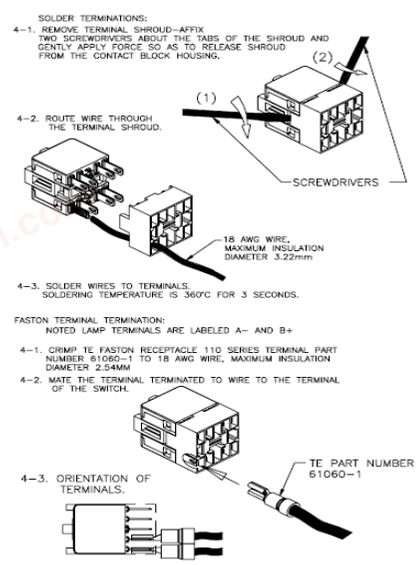
Identification Plate (Emergency Stop)


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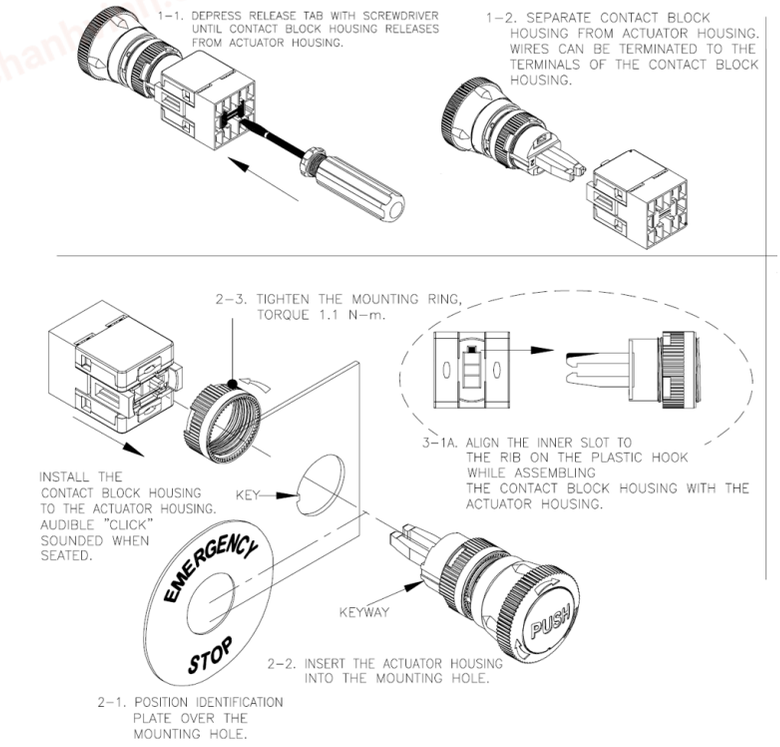
How to Install

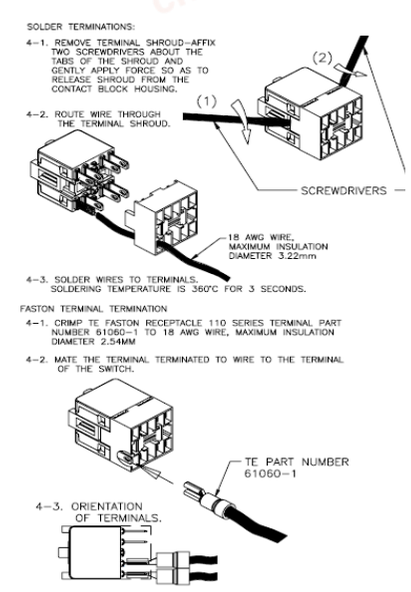
PBES16L (With or Without Lamp)





PBES16N Series (Non-Illuminated)



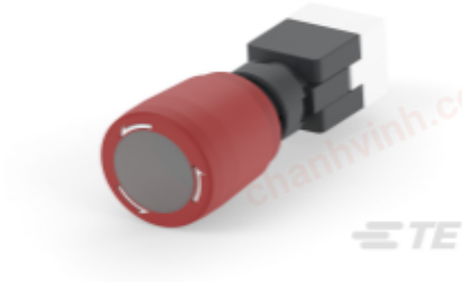


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How to Order

PBES16L Illuminated Pushbutton Emergency Stop Switch

With or Without Lamp



Insert character to build TE Smart Part Number *

Model No.	Switch Function	Lamp Options	Actuator Color
PBES16L			R

Switch Function	
1	000 + NC
2	1NC + 1NO
3	1NC + 1NC

Lamp Options	
0	No Lamp
A	LED 6V DC 28mA
B	LED 12V DC 19mA
C	LED 24V DC 12mA
D	LED 12 to 24V AC/DC 11mA
H	INCANDESCENT 6V AC/DC 200mA
I	INCANDESCENT 14 V AC/DC 80mA
J	INCANDESCENT 28V AC/DC 40mA
K	INCANDESCENT 48V AC/DC 25mA
L	INCANDESCENT 60V AC/DC 20mA
M	INCANDESCENT 33V AC/DC 35mA
N	INCANDESCENT 6VAC/DC 40mA
O	INCANDESCENT 14V AC/DC 40mA

Actuator Color	
R	Red

*Complete part number list is on last page.

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How to Order

PBES16N Non-Illuminated Pushbutton Emergency Stop Switch



Insert character to build TE Smart Part Number *

Model No.	Switch Function	Lamp Option	Actuator Color
PBES16N		0	R

Switch Function

4	000 + NC
5	1NC + 1NO
6	1NC + 1NC

Lamp Options

0	No Lamp

Actuator Color

R	Red

*Complete part number list is on last page.

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Complete Part Number List

PBES16L Emergency Stop Series				
TE Smart Part Number	Function	Lamp Type	Product Description	TE Part Number
PBES16L1NR	000 + 1NC	INCANDESCENT 6VAC/DC 40mA	PBES16 28 INCA 6V AC/DC 40mA 000 1NC	2381880-1
PBES16L1HR		INCANDESCENT 6V AC/DC 200mA	PBES16 28 INCA 6V AC/DC 200mA 000 1NC	2381880-2
PBES16L1OR		INCANDESCENT 14V AC/DC 40mA	PBES16 28 INCA 14V AC/DC 40mA 000 1NC	2381880-3
PBES16L1IR		INCANDESCENT 14 V AC/DC 80mA	PBES16 28 INCA 14 V AC/DC 80mA 000 1NC	2381880-4
PBES16L1JR		INCANDESCENT 28V AC/DC 40mA	PBES16 28 INCA 28V AC/DC 40mA 000 1NC	2381880-5
PBES16L1MR		INCANDESCENT 33V AC/DC 35mA	PBES16 28 INCA 33V AC/DC 35mA 000 1NC	2381880-6
PBES16L1KR		INCANDESCENT 48V AC/DC 25mA	PBES16 28 INCA 48V AC/DC 25mA 000 1NC	2381880-7
PBES16L1LR		INCANDESCENT 60V AC/DC 20mA	PBES16 28 INCA 60V AC/DC 20 mA 000 1NC	2381880-8
PBES16L1AR		LED 6V DC 28mA	PBES16 28 LED 6V DC 28mA 000 1NC	2381880-9
PBES16L1BR		LED 12V DC 19mA	PBES16 28 LED 12V DC 19mA 000 1NC	1-2381880-0
PBES16L1DR		LED 12 to 24V AC/DC 11mA	PBES16 28 LED 12 to 24V AC/DC/11mA 000 1NC	1-2381880-1
PBES16L1CR		LED 24V DC 12mA	PBES16 28 LED 24V DC 12 mA 000 1NC	1-2381880-2
PBES16L2NR	1NC + 1NO	INCANDESCENT 6VAC/DC 40mA	PBES16 28 INCA 6VAC/DC 40mA 1NC 1NO	1-2381880-6
PBES16L2HR		INCANDESCENT 6V AC/DC 200mA	PBES16 28 INCA 6V AC/DC 200mA 1NC 1NO	1-2381880-7
PBES16L2OR		INCANDESCENT 14V AC/DC 40mA	PBES16 28 INCA 14V AC/DC 40mA 1NC 1NO	1-2381880-8
PBES16L2IR		INCANDESCENT 14 V AC/DC 80mA	PBES16 28 INCA 14 V AC/DC 80mA 1NC 1NO	1-2381880-9
PBES16L2JR		INCANDESCENT 28V AC/DC 40mA	PBES16 28 INCA 28V AC/DC 40mA 1NC 1NO	2-2381880-0
PBES16L2MR		INCANDESCENT 33V AC/DC 35mA	PBES16 28 INCA 33V AC/DC 35mA 1NC 1NO	2-2381880-1
PBES16L2KR		INCANDESCENT 48V AC/DC 25mA	PBES16 28 INCA 48V AC/DC 25mA 1NC 1NO	2-2381880-2
PBES16L2LR		INCANDESCENT 60V AC/DC 20mA	PBES16 28 INCA 60V AC/DC 20 mA 1NC 1NO	2-2381880-3
PBES16L2AR		LED 6V DC 28mA	PBES16 28 LED 6V DC 28mA 1NC 1NO	2-2381880-4
PBES16L2BR		LED 12V DC 19mA	PBES16 28 LED 12V DC 19mA 1NC 1NO	2-2381880-5
PBES16L2DR		LED 12 to 24V AC/DC 11mA	PBES16 28 LED 12 to 24V AC/DC/11mA 1NC 1NO	2-2381880-6
PBES16L2CR		LED 24V DC 12mA	PBES16 28 LED 24V DC 12 mA 1NC 1NO	2-2381880-7
PBES16L3NR	1NC + 1NC	INCANDESCENT 6VAC/DC 40mA	PBES16 28 INCA 6VAC/DC 40mA 1NC 1NC	3-2381880-1
PBES16L3HR		INCANDESCENT 6V AC/DC 200mA	PBES16 28 INCA 6V AC/DC 200mA 1NC 1NC	3-2381880-2
PBES16L3OR		INCANDESCENT 14V AC/DC 40mA	PBES16 28 INCA 14V AC/DC 40mA 1NC 1NC	3-2381880-3
PBES16L3IR		INCANDESCENT 14 V AC/DC 80mA	PBES16 28 INCA 14 V AC/DC 80mA 1NC 1NC	3-2381880-4
PBES16L3JR		INCANDESCENT 28V AC/DC 40mA	PBES16 28 INCA 28V AC/DC 40mA 1NC 1NC	3-2381880-5
PBES16L3MR		INCANDESCENT 33V AC/DC 35mA	PBES16 28 INCA 33V AC/DC 35mA 1NC 1NC	3-2381880-6
PBES16L3KR		INCANDESCENT 48V AC/DC 25mA	PBES16 28 INCA 48V AC/DC 25mA 1NC 1NC	3-2381880-7
PBES16L3LR		INCANDESCENT 60V AC/DC 20mA	PBES16 28 INCA 60V AC/DC 20 mA 1NC 1NC	3-2381880-8
PBES16L3AR		LED 6V DC 28mA	PBES16 28 LED 6V DC 28mA 1NC 1NC	3-2381880-9
PBES16L3BR		LED 12V DC 19mA	PBES16 28 LED 12V DC 19mA 1NC 1NC	4-2381880-0
PBES16L3DR		LED 12 to 24V AC/DC 11mA	PBES16 28 LED 12 to 24V AC/DC/11mA 1NC 1NC	4-2381880-1
PBES16L3CR		LED 24V DC 12mA	PBES16 28 LED 24V DC 12 mA 1NC 1NC	4-2381880-2
PBES16L10R	000 + 1NC	NO LAMP	PBES16 28 NO LAMP 000 1NC	4-2381880-6
PBES16L20R	1NC + 1NO	NO LAMP	PBES16 28 NO LAMP 1NC 1NO	4-2381880-7
PBES16L30R	1NC + 1NC	NO LAMP	PBES16 28 NO LAMP 1NC 1NC	4-2381880-8

PBES16N Emergency Stop Series				
TE Smart Part Number	Function	Lamp Type	Product Description	TE Part Number
PBES16N40R	000 + 1NC	NO LAMP	PBES16 23.8 RB NO LAMP 000 1NC	2381881-1
PBES16N50R	1NC + 1NO	NO LAMP	PBES16 23.8 RB NO LAMP 1NC 1NO	2381881-2
PBES16N60R	1NC + 1NC	NO LAMP	PBES16 23.8 RB NO LAMP 1NC 1NC	2381881-3