



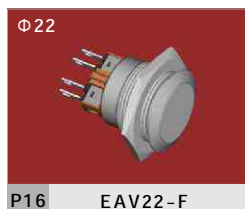
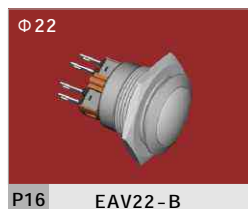
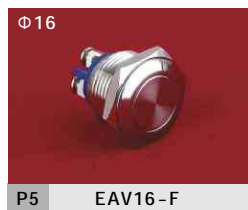
EAV series **ANTI-VANDAL PUSHBUTTONS**

EMP series **METAL PUSHBUTTONS**

ISO9001 CCC CE  cUL^{us}



Station House, Station Yard Industrial Estate, Station Road, Dunmow, Essex. CM6 1XD United Kingdom.
T: +44 (0)1371 878710 F: +44 (0) 1371 878706 E: sales@eledis.com W: www.eledis.com



To assist in locating the correct switch for your application, please find below tabulated fixing sizes, electrical functions and ratings associated with each series. Please refer to the catalogue pages indicated for detailed information on your required switch.

Fixing Size	Model	Contact Structure	Max. Rating	Safety&Capability	Page
Φ 8mm	EAVP8	Signal Lamp	15mA 3~48V	Anti-vandal IP67	P3
Φ 12mm	EAVP12	Signal Lamp	15mA 3~48V	Anti-vandal IP67	P3
	EAV12	Pushbuttons: 1NO Momentary	2A 48VDC	Anti-vandal IP65	P4
Φ 16mm	EAV16	Pushbuttons: 1NO Momentary	2A 48VDC	Anti-vandal IP65	P5 ~ P6
	EMP16	Illuminated Pushbuttons: 1NO1NC Momentary 1NO1NC Alternate 2NO2NC Momentary 2NO2NC Alternate	3A 250VAC	IP67	P8 ~ P10
Φ 19mm	EAV19	Pushbuttons: 1NO Momentary	2A 48VDC	Anti-vandal IP65	P7
	EAV19 - 11	Illuminated Pushbuttons: 1NO1NC Momentary 1NO1NC Alternate Key Switches: 1NO1NC Maintain 2NO2NC Maintain	5A 250VAC	Anti-vandal IP65	P11 ~ P12
	EMP19 - A	Illuminated Pushbuttons: 1NO1NC Momentary 1NO1NC Alternate 2NO2NC Momentary 2NO2NC Alternate	5A 250VAC	IP67	P13 ~ P15
	EMP19 - B	Illuminated Pushbuttons: 1NO1NC Momentary 1NO1NC Alternate 2NO2NC Momentary 2NO2NC Alternate 3NO3NC Momentary 3NO3NC Alternate	5A 250VAC	IP67	P13 ~ P15
Φ 22mm	EAV22	Illuminated Pushbuttons: 1NO1NC Momentary	5A 250VAC	IP67	P16
Φ 25mm	EAV25	Pushbuttons: 1NO1NC Momentary 2NO2NC Momentary	5A 250VAC	IP67	P16



EAV series

ANTI-VANDAL PUSHBUTTONS

EMP series

METAL PUSHBUTTONS

How to order:

◆Anti-Vandal Pilot Lamps

EAVP ☐ ☐ — ☐ ☐ ☐ ☐ ☐					
Series	Mounting Hole:	Function:	Colour:	Lamp Voltage:	Body Material:
	8 Ø8mm	D signal lamp	R red	6V AC/DC	N Nickel Plated Brass
	12 Ø12mm		G green	12V AC/DC	S Stainless Steel
			Y yellow	24V AC/DC	
			O orange		
			B blue		
			W white		

NOTE: ⦿ EAVP8 is available in both Nickel Plated Brass and Stainless Steel body material.

⦿ EAVP12 is only available with Stainless Steel body material.

◆Anti-Vandal and Metal pushbutton switches

EAV ☐ ☐ — ☐ ☐ ☐ ☐					
Series	Mounting Hole:	Actuator:	Termination:	Body Material:	Finish:
	12 Ø12mm	B Domed	J Pin Terminal	N Nickel Plated Brass	R red
	16 Ø16mm	F Flat	No letter means	G Gold Plated Brass	G green
	19 Ø19mm	H Raised	Screw	S Stainless Steel	Y yellow
	22 Ø22mm		Terminals	A Zn-Al alloy	O orange
	25 Ø25mm				B blue
					W white

NOTE: ⦿ Six colour finishes are available for the EAV12 with Body Material A

⦿ EAV22 and EAV25 switches are in development stage.

EMP16 ☐ — ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐							
Series	Actuator:	Contact Form:	Function:	Illumination:	Lamp Colour:	Lamp Voltage:	Body Material:
	F Flat	11 1NO1NC	Z Latching	D dot	R red	6V AC/DC	N Nickel Plated Brass
	H Raised	22 2NO2NC	No letter = Momentary	E ring	G green	12V AC/DC	G Gold Plated Brass
	C Concave Round			No letter means without lamp.	Y yellow	24V AC/DC	S Stainless Steel
	G Raised Concave Round				O orange	110V AC/DC	
					B Blue	220V AC/DC	
					W white		

NOTE: ⦿ High concave round actuator is available in six colours.

EAV19S EAV19R EMP19A EMP19B — ☐ ☐ ☐ ☐ ☐ ☐					
Series	Contact Form:	Function:	Illumination:	Lamp Colour:	Lamp Voltage:
	11 1NO1NC	Z Latching	D dot illuminated	R red	6V AC/DC
	22 2NO2NC	Y Key switch	E ring illuminated	G green	12V AC/DC
	33 3NO3NC	No letter = Momentary	No letter means without lamp.	Y yellow	24V AC/DC
				O orange	110V AC/DC
				B blue	220V AC/DC
				W white	

NOTE: ⦿ Body material is only available in Stainless Steel

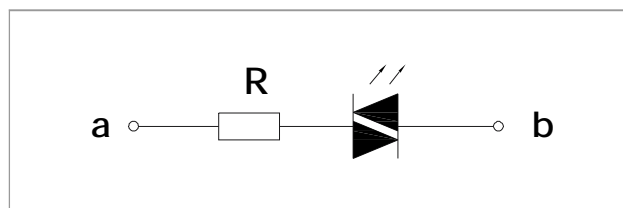
⦿ Actuator shape is only available in Flat style.

Lamp Ratings

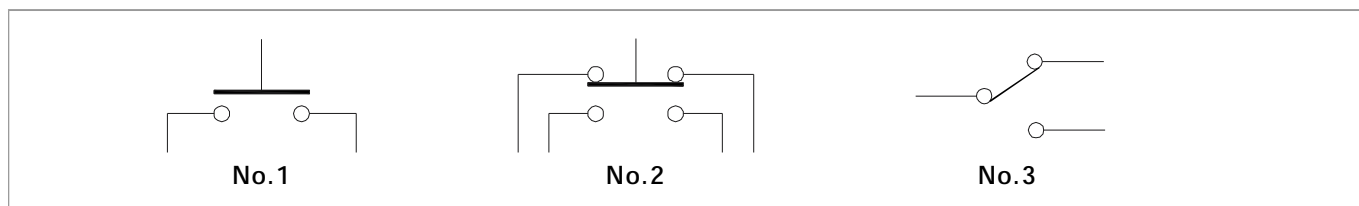
Lamp Type	LED Lamp		
Rated Voltage	AC/DC6V	AC/DC12V	AC/DC24V
	AC/DC110V	AC/DC220V	
Cover Color	R	G	Y O B W
Life	About 40,000 hours		

Note: The lamp contains a current - limiting resistor.
Other operating voltage can be customized.

Lamp circuit diagram

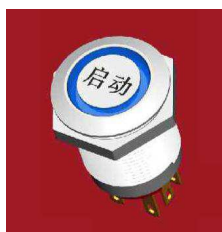
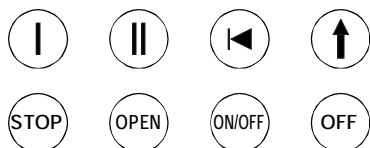


Switching Function



Engraving Options

- Special types can be made to order.
- Examples



Available Finishes



Nickel Plated Brass
Satin surface

Stainless Steel
Spiral surface

Gold-plated brass
Satin surface

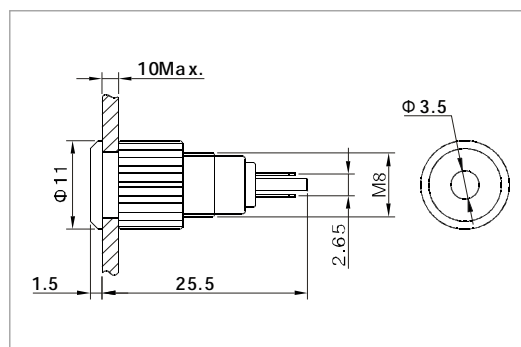
Soldering information

- Soldering iron 30W or under 30W at 230°C for 3sec max.

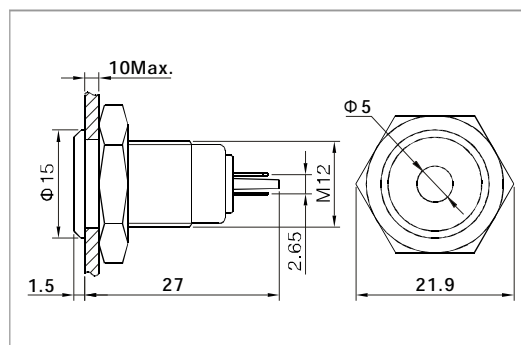
IMPORTANT NOTE: All IP ratings stated apply to the front of the mounting panel only.

PILOT LAMP


- ⊙ $\Phi 8$ mm mounting hole
- ⊙ Voltage Range:3~48V
- ⊙ Rated Current:15mA
- ⊙ Lamp Type:LED
- ⊙ Lamp Color: R G Y O B W
- ⊙ Body Material:Stainless Steel/
Nickel Plated Brass
- ⊙ IP Degree:IP67

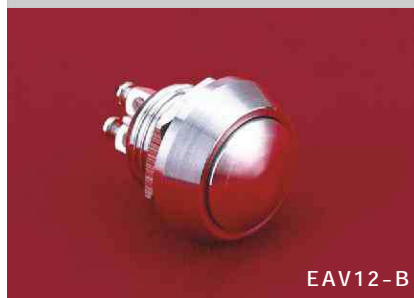
EAVP8

PILOT LAMP


- ⊙ $\Phi 12$ mm mounting hole
- ⊙ Voltage Range:3~48V
- ⊙ Rated Current:15mA
- ⊙ Lamp Type:LED
- ⊙ Lamp Color: R G Y O B W
- ⊙ Body Material:Stainless Steel
- ⊙ IP Degree:IP67

EAVP12


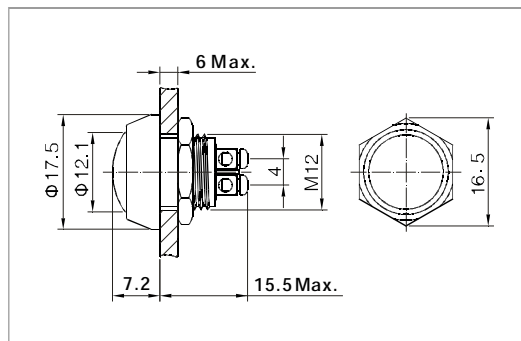
Series		EAVP8	EAVP12
Terminal Type		Solder Tag (1.8×0.4mm)	Solder Tag (1.8×0.4mm)
Dielectric Strength		1100VAC	2000VAC
Operating Temp		-20℃ ~ +70℃	-20℃ ~ +70℃
Panel Thickness		1 ~ 6mm	1 ~ 6mm
Torque		5 ~ 14Nm	5 ~ 14Nm
IP Rating		IP67	IP67
Material	Actuator	PC	PC
	Body	Stainless Steel/Nickel Plated Brass	Stainless Steel
	Base	PBT	PBT
RoHS		Compliant	Compliant
LED Spec.	Type	Pilot lamp(LED)	Pilot lamp(LED)
	Rated Voltage	6V/12V/24V	6V/12V/24V
	Color	R G Y O B W	R G Y O B W
	Life	About 40,000 hours	About 40,000 hours

PUSH BUTTON SWITCH



- ⊙ $\Phi 12\text{mm}$ mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Domed actuator.
- ⊙ Body Material: Stainless Steel/
Nickel Plated Brass
- ⊙ IP Rating: IP65

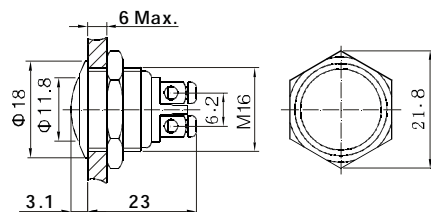
EAV12-B



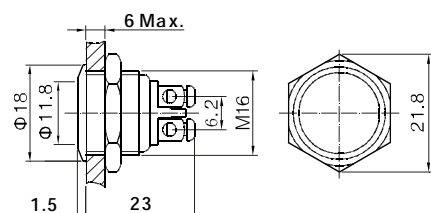
Series		EAV12-B
Terminal Type		Screw Terminals
Switching Function		No.1
Max. Switch Rating		2A/48VDC
Contact Resistance		$\leq 50\text{m}\Omega$
Insulation Resistance		$\geq 1000\text{M}\Omega$
Dielectric Strength		2000VAC
Operation Temp.		$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Mechanical Life		1,000,000cycles
Electrical Life		200,000cycles
Contact Material		Silver Alloy
Panel Thickness		1 ~ 6mm
Torque		5 ~ 14Nm
Operation Temp.		5.5N
IP Rating		IP65
Material	Actuator	Stainless Steel/Nickel Plated Brass
	Body	Stainless Steel/Nickel Plated Brass
	Base	PBT
RoHS		Compliant

PUSH BUTTON SWITCH

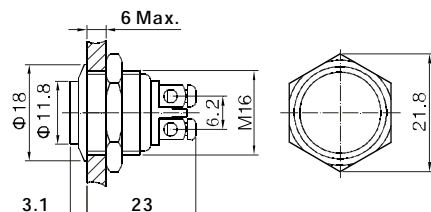

- ⊙ Φ 16mm mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Domed Actuator.
- ⊙ Body Material: Stainless Steel/
Brass(Nickel Plated, Gold Plated)
- ⊙ IP Rating: IP65


PUSH BUTTON SWITCH


- ⊙ Φ 16mm mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Flat Actuator
- ⊙ Body Material: Stainless Steel/
Brass(Nickel Plated, Gold Plated)
- ⊙ IP Rating: IP65


PUSH BUTTON SWITCH

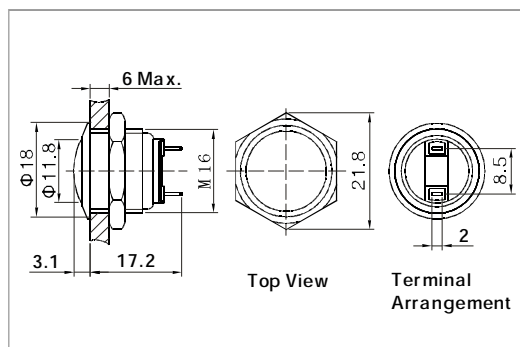

- ⊙ Φ 16mm mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Raised Actuator.
- ⊙ Body Material: Stainless Steel/
Brass(Nickel Plated, Gold Plated)
- ⊙ IP Rating: IP65



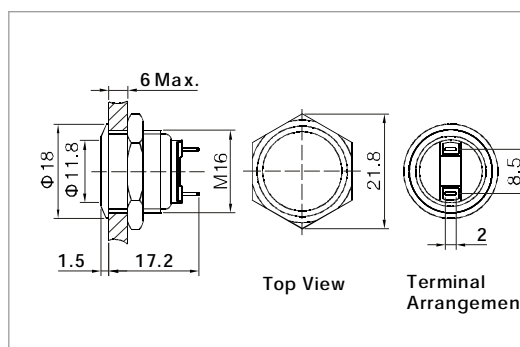
Series		EAV16-B	EAV16-F	EAV16-H
Actuator style		Domed	Flat	Raised
Terminal Type		Screw Terminals	Screw Terminals	Screw Terminals
Switching Function		No.1	No.1	No.1
Max. Switch Rating		2A/48VDC	2A/48VDC	2A/48VDC
Contact Resistance		$\leq 50m\Omega$	$\leq 50m\Omega$	$\leq 50m\Omega$
Insulation Resistance		$\geq 1000M\Omega$	$\geq 1000M\Omega$	$\geq 1000M\Omega$
Dielectric Strength		2000VAC	2000VAC	2000VAC
Operation Temp.		-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C
Mechanical Life		1,000,000cycles	1,000,000cycles	1,000,000cycles
Electrical Life		200,000cycles	200,000cycles	200,000cycles
Contact Material		Silver Alloy	Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 6mm	1 ~ 6mm	1 ~ 6mm
Torque		5 ~ 14Nm	5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N	5.5N
IP Rating		IP65	IP65	IP65
Material	Actuator	Stainless Steel/Brass(Nickel Plated, Gold Plated)	Stainless Steel/Brass(Nickel Plated, Gold Plated)	Stainless Steel/Brass(Nickel Plated, Gold Plated)
	Body	Stainless Steel/Brass(Nickel Plated, Gold Plated)	Stainless Steel/Brass(Nickel Plated, Gold Plated)	Stainless Steel/Brass(Nickel Plated, Gold Plated)
	Base	PBT	PBT	PBT
RoHS		Compliant	Compliant	Compliant

PUSH BUTTON SWITCH

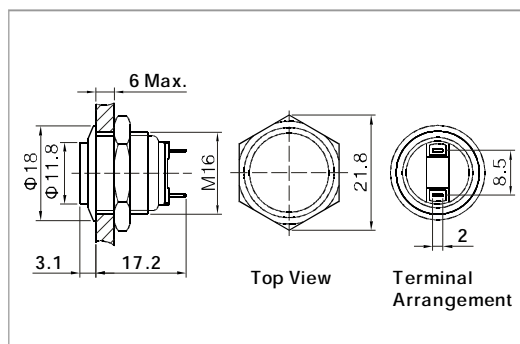

- ⊙ Φ 16mm mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Domed Actuator.
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP65

EAV16-BJ

PUSH BUTTON SWITCH


- ⊙ Φ 16mm mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP65

EAV16-FJ

PUSH BUTTON SWITCH

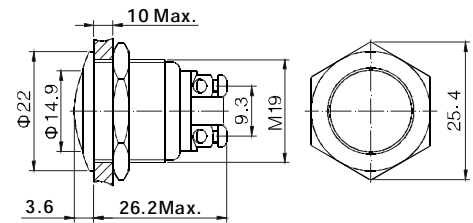

- ⊙ Φ 16mm mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Raised Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP65

EAV16-HJ


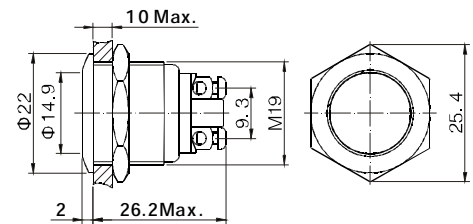
Series		EAV16-BJ	EAV16-FJ	EAV16-HJ
Actuator Style		Domed	Flat	Raised
Terminal Type		Solder Tag (2×0.5mm)	Solder Tag (2×0.5mm)	Solder Tag (2×0.5mm)
Switching Function		No.1	No.1	No.1
Max.Switch Rating		2A/48VDC	2A/48VDC	2A/48VDC
Contact Resistance		≤50mΩ	≤50mΩ	≤50mΩ
Insulation Resistance		≥1000MΩ	≥1000MΩ	≥1000MΩ
Dielectric Strength		2000VAC	2000VAC	2000VAC
Operation Temp.		-20℃ ~ +70℃	-20℃ ~ +70℃	-20℃ ~ +70℃
Mechanical Life		1,000,000cycles	1,000,000cycles	1,000,000cycles
Electrical Life		200,000cycles	200,000cycles	200,000cycles
Contact Material		Silver Alloy	Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 6mm	1 ~ 6mm	1 ~ 6mm
Torque		5 ~ 14Nm	5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N	5.5N
IP Rating		IP65	IP65	IP65
Material	Actuator	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)
	Body	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)
	Base	PBT	PBT	PBT
RoHS		Compliant	Compliant	Compliant

PUSH BUTTON SWITCH

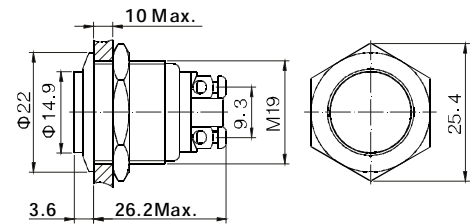

- ⊙ $\Phi 19$ mm mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Domed Actuator.
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP65

EAV19-B

PUSH BUTTON SWITCH


- ⊙ $\Phi 19$ mm mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Flat Actuator.
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP65

EAV19-F

PUSH BUTTON SWITCH

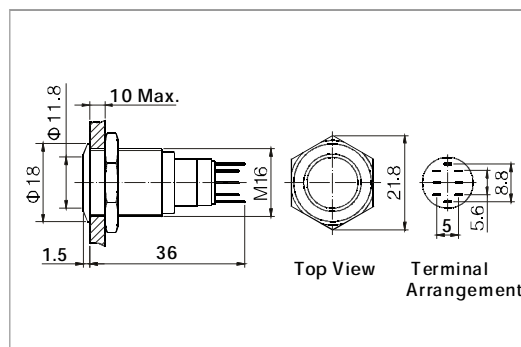

- ⊙ $\Phi 19$ mm mounting hole.
- ⊙ 2A/48VDC
- ⊙ 1NO
- ⊙ Raised Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP65

EAV19-H


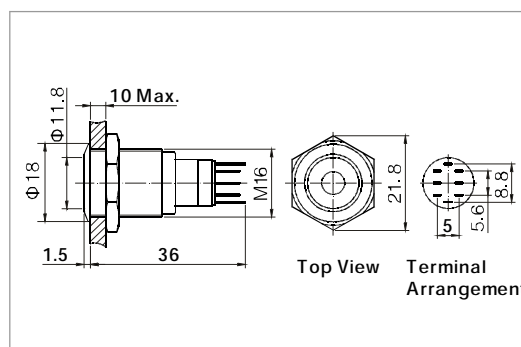
Series		EAV19-B	EAV19-F	EAV19-H
Actuator Style		Domed	Flat	Raised
Terminal Type		Screw Terminals	Screw Terminals	Screw Terminals
Switching Function		No.1	No.1	No.1
Max.Switch Rating		2A/48VDC	2A/48VDC	2A/48VDC
Contact Resistance		$\leq 50m\Omega$	$\leq 50m\Omega$	$\leq 50m\Omega$
Insulation Resistance		$\geq 1000M\Omega$	$\geq 1000M\Omega$	$\geq 1000M\Omega$
Dielectric Strength		2000VAC	2000VAC	2000VAC
Operation Temp.		-20°C ~ +70°C	-20°C ~ +70°C	- 20°C ~ + 70°C
Mechanical Life		1,000,000cycles	1,000,000cycles	1,000,000cycles
Electrical Life		200,000cycles	200,000cycles	200,000cycles
Contact Material		Silver Alloy	Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 8mm	1 ~ 8mm	1 ~ 8mm
Torque		5 ~ 14Nm	5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N	5.5N
IP Rating		IP65	IP65	IP65
Material	Actuator	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)
	Body	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)
	Base	PBT	PBT	PBT
RoHS		Compliant	Compliant	Complaint

PUSH BUTTON SWITCH

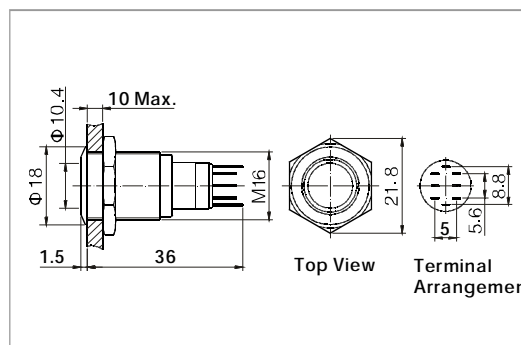

- ⊙ Φ 16mm mounting hole.
- ⊙ 3A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP40/IP67


DOT ILLUMINATED PUSHBUTTON

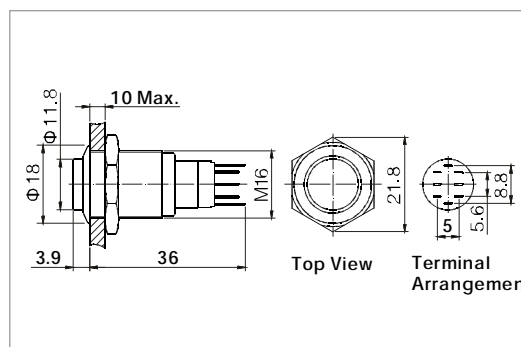

- ⊙ Φ 16mm mounting hole.
- ⊙ 3A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ Dot Illuminated
- ⊙ IP Rating:IP40/IP67


RING ILLUMINATED PUSHBUTTON

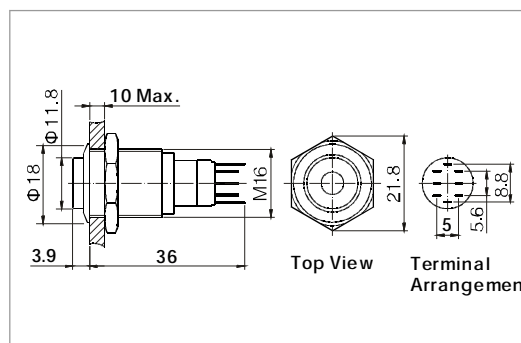

- ⊙ Φ 16mm mounting hole.
- ⊙ 3A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ Ring Illuminated
- ⊙ IP Rating:IP40/IP67


PUSH BUTTON SWITCH


- ⊙ Φ 16mm mounting hole.
- ⊙ 3A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Raised Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP40/IP67


DOT ILLUMINATED PUSHBUTTON

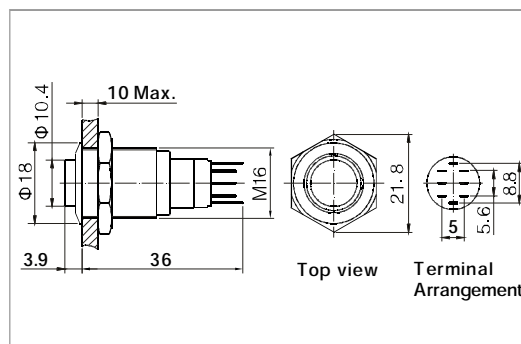

- ⊙ Φ 16mm mounting hole.
- ⊙ 3A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Raised Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ Dot Illuminated
- ⊙ IP Rating:IP40/IP67



RING ILLUMINATED PUSHBUTTON

EMP16-H

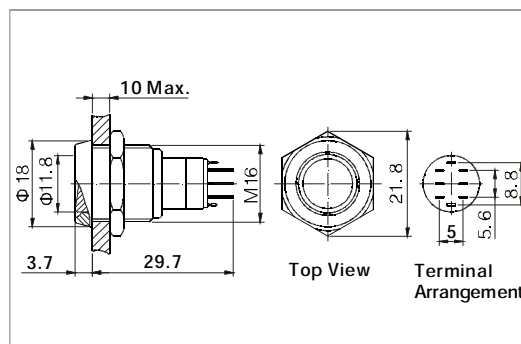
- ⊙ Φ 16mm mounting hole.
- ⊙ 3A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Raised Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ Ring Illuminated
- ⊙ IP Rating:IP 40/IP67



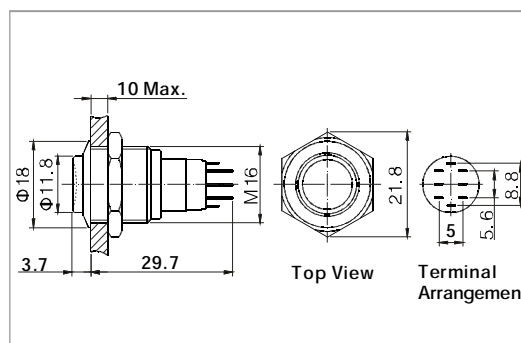
Series		EMP16-F EMP16-H	EMP16-F EMP16-H	EMP16-F EMP16-H
Actuator Style		Flat Raised	Flat Raised	Flat Raised
Terminal Type		Solder Tag (1.8×0.4mm)	Solder Tag (1.8×0.4mm)	Solder Tag (1.8×0.4mm)
Switching Function		No.3	No. 3	No. 3
Max.Switch Rating		3A/250VAC	3A/250VAC	3A/250VAC
Contact Resistance		$\leq 50m\Omega$	$\leq 50m\Omega$	$\leq 50m\Omega$
Insulation Resistance		$\geq 1000M\Omega$	$\geq 1000M\Omega$	$\geq 1000M\Omega$
Dielectric Strength		2000VAC	2000VAC	2000VAC
Operation Temp.		-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C
Mechanical Life		1,000,000cycles	1,000,000cycles	1,000,000cycles
Electrical Life		50,000 cycles	50,000 cycles	50,000 cycles
Contact Material		Silver Alloy	Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 10mm	1 ~ 10mm	1 ~ 10mm
Torque		5 ~ 14Nm	5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N	5.5N
IP Rating		IP 40/IP67	IP 40/IP67	IP 40/IP67
Material	Actuator	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)
	Body	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)	Stainless Steel/Brass(Nickel Plated,Gold Plated)
	Base	PBT	PBT	PBT
RoHS		Compliant	Compliant	Compliant
LED Spec.	Type	Without Lamp	Dot Illuminated(LED)	Ring Illuminated(LED)
	Rated Voltage	---	6V / 12V / 24V / 110V / 220V	6V / 12V / 24V / 110V / 220V
	Color	---	R G Y O B W	R G Y O B W
	Life	---	40,000 hours	40,000 hours

PUSH BUTTON SWITCH


- ⊙ Φ 16mm mounting hole.
- ⊙ 3A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Concave Round Actuator
- ⊙ Body Material: Stainless Steel/
Brass(Nickel Plated, Gold Plated)
- ⊙ IP Rating: IP67


PUSH BUTTON SWITCH

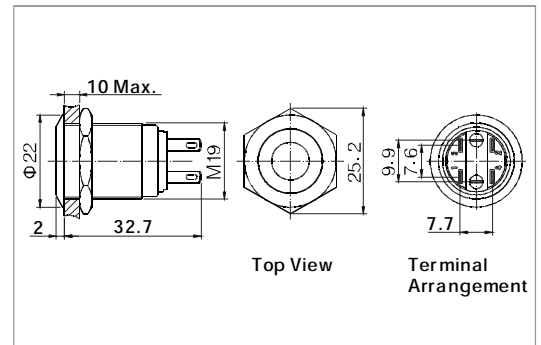

- ⊙ Φ 16mm mounting hole.
- ⊙ 3A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Raised Concave Round Actuator
- ⊙ Body Material: Stainless Steel/
Brass(Nickel Plated, Gold Plated)
- ⊙ IP Rating: IP67
- ⊙ Actuator Color: red/green/yellow
/orange/blue/white



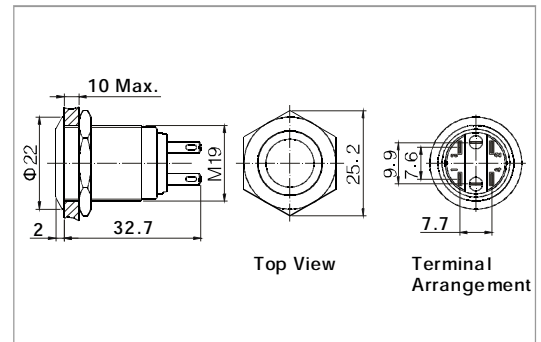
Series		EAV16 - C	EAV16 - G
Actuator Style		Concave Round	Raised Concave Round
Terminal Type		Solder Tag	Solder Tag
Switching Function		No.3	No.3
Max.Switch Rating		3A/250VAC	3A/250VAC
Contact Resistance		$\leq 50m\Omega$	$\leq 50m\Omega$
Insulation Resistance		$\geq 1000M\Omega$	$\geq 1000M\Omega$
Dielectric Strength		2000VAC	2000VAC
Operation Temp.		-20°C ~ +70°C	-20°C ~ +70°C
Mechanical Life		1,000,000cycles	1,000,000cycles
Electrical Life		50,000 cycles	50,000 cycles
Contact Material		Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 10mm	1 ~ 10mm
Torque		5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N
IP Rating		IP67	IP67
Actuator colour		—	R G Y O B W
RoHS		Compliant	Compliant
Material	Actuator	Stainless Steel/Brass(Nickel Plated, Gold Plated)	Aluminium Alloy
	Body	Stainless Steel/Brass(Nickel Plated, Gold Plated)	Stainless Steel/Brass(Nickel Plated, Gold Plated)
	Base	PBT	PBT

DOT ILLUMINATED PUSHBUTTON


- ⊙ Φ 19mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO
- ⊙ Body Material:Stainless Steel
- ⊙ Dot Illuminated
- ⊙ IP Rating:IP65

EAV19S-11□D

RING ILLUMINATED PUSHBUTTON


- ⊙ Φ 19mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO
- ⊙ Body Material:Stainless Steel
- ⊙ Ring Illuminated
- ⊙ IP Rating:IP65

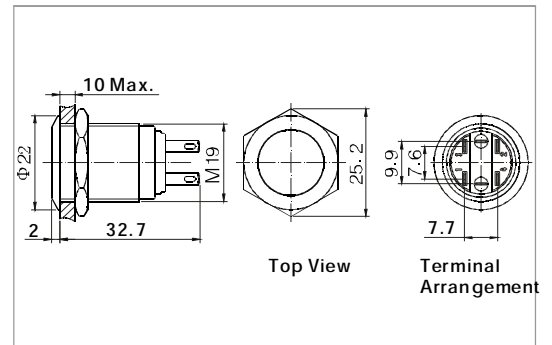
EAV19R-11□E


Series		EAV19S-11□D	EAV19R-11□E
Actuator Style		Flat	Flat
Terminal Type		Solder Tag (2.8×0.5mm)	Solder Tag (2.8×0.5mm)
Switching Function		No. 2	No. 2
Max.Switch Rating		5A/250VAC	5A/250VAC
Contact Resistance		≤ 50mΩ	≤ 50mΩ
Insulation Resistance		≥ 1000MΩ	≥ 1000MΩ
Dielectric Strength		2000VAC	2000VAC
Operation Temp.		-20°C ~ +70°C	-20°C ~ +70°C
Mechanical Life		1,000,000cycles	1,000,000cycles
Electrical Life		50,000 cycles	50,000 cycles
Contact Material		Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 10mm	1 ~ 10mm
Torque		5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N
IP Rating		IP65	IP65
Material	Actuator	Stainless Steel	Stainless Steel
	Body	Stainless Steel	Stainless Steel
	Base	PBT	PBT
	RoHS	Compliant	Compliant
LED Spec.	Type	Dot Illuminated(LED)	Ring Illuminated(LED)
	Rated Voltage	6V / 12V / 24V / 110V / 220V	6V / 12V / 24V / 110V / 220V
	Color	R G Y O B W	R G Y O B W
	Life	40,000 hours	40,000 hours

PUSH BUTTON



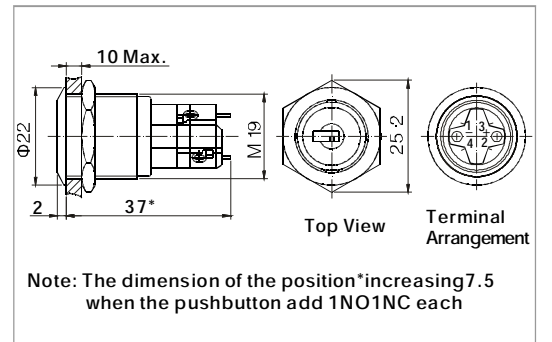
- ⊙ Φ 19mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel
- ⊙ IP Rating:IP65



KEY SWITCHES



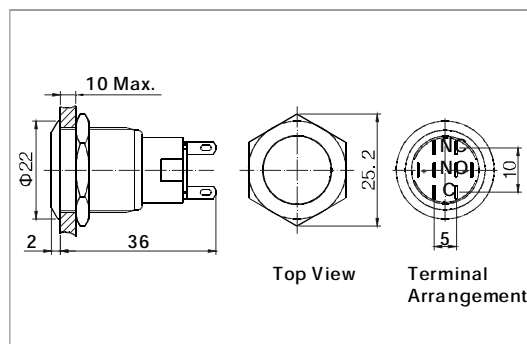
- ⊙ Φ 19mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Two position
- ⊙ Body Material:Stainless Steel
- ⊙ IP Rating:IP40



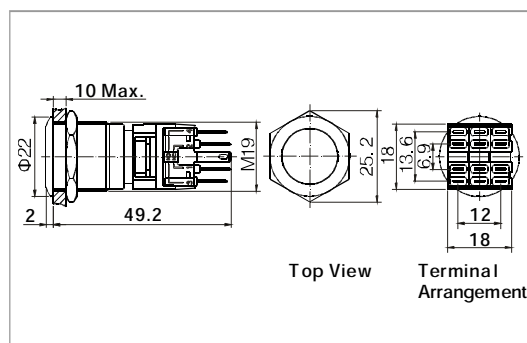
Series		EAV19-11	EAV19-□□Y
Actuator Style		Flat	Flat
Terminal Type		Solder Tag (2.8×0.5mm)	Solder Tag
Switching Function		No.2	No.2
Max.Switch Rating		5A/250VAC	5A/250VAC
Contact Resistance		≤50mΩ	≤50mΩ
Insulation Resistance		≥1000MΩ	≥1000MΩ
Dielectric Strength		2000VAC	2000VAC
Operation Temp.		-20℃ ~ +70℃	-20℃ ~ +70℃
Mechanical Life		1,000,000cycles	1,000,000cycles
Electrical Life		50,000 cycles	50,000 cycles
Contact Material		Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 10mm	1 ~ 10mm
Torque		5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N
IP Rating		IP65	IP40
Material	Actuator	Stainless Steel	Zn-Al alloy
	Body	Stainless Steel	Stainless Steel
	Base	PBT	Bakelite
RoHS		Compliant	Compliant

PUSHBUTTONS


- ⊙ $\Phi 19$ mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel
- ⊙ IP Rating:IP67

EMP19 - A

PUSHBUTTONS

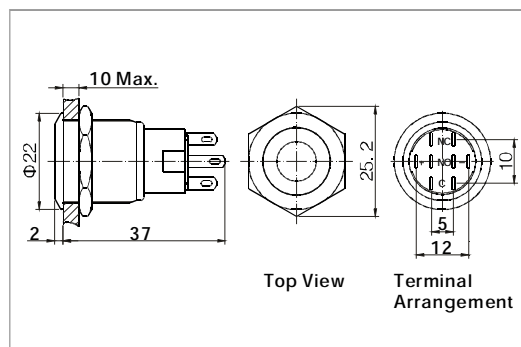

- ⊙ $\Phi 19$ mm mounting hole.
- ⊙ Combined Structure
- ⊙ 3A/250VAC
- ⊙ 1NO1NC/2NO2NC/3NO3NC
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel
- ⊙ IP Rating:IP67

EMP19 - B


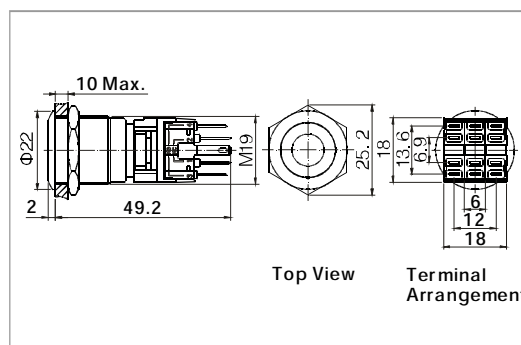
Series		EMP19 - A	EMP19 - B
Actuator Style		Flat	Flat
Terminal Type		Solder Tag (2.8×0.5mm)	Solder Tag (2.8×0.5mm)
Switching Function		No.3	No.2
Max.Switch Rating		5A/250VAC	5A/250VAC
Contact Resistance		$\leq 50\text{m}\Omega$	$\leq 50\text{m}\Omega$
Insulation Resistance		$\geq 1000\text{M}\Omega$	$\geq 1000\text{M}\Omega$
Dielectric Strength		2000VAC	2000VAC
Operation Temp.		-20℃ ~ +70℃	-20℃ ~ +70℃
Mechanical Life		1,000,000cycles	1,000,000cycles
Electrical Life		50,000 cycles	50,000 cycles
Contact Material		Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 10mm	1 ~ 10mm
Torque		5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N
IP Rating		IP67	IP67
Material	Actuator	Stainless Steel	Stainless Steel
	Body	Stainless Steel	Stainless Steel
	Base	PBT	PA
RoHS		Compliant	Compliant

DOT ILLUMINATED PUSHBUTTON


- ⊙ Φ19mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel
- ⊙ Dot Illuminated
- ⊙ IP Rating:IP67


DOT ILLUMINATED PUSHBUTTON

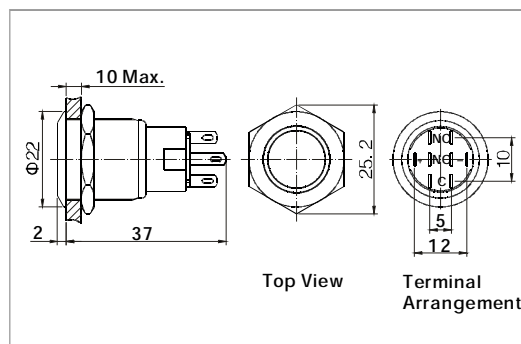

- ⊙ Φ19mm mounting hole.
- ⊙ Combined Structure
- ⊙ 5A/250VAC
- ⊙ 1NO1NC/2NO2NC/3NO3NC
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel
- ⊙ Dot Illuminated
- ⊙ IP Rating:IP67



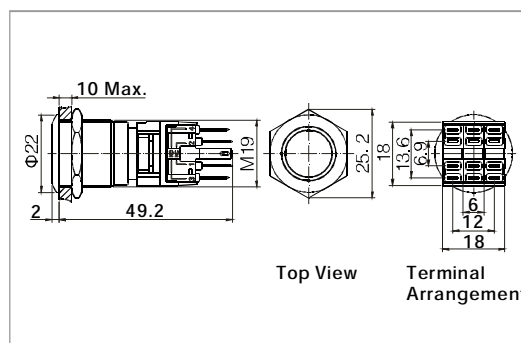
Series		EMP19-A□□□D	EMP19-B□□□D
Actuator Style		Flat	Flat
Terminal Type		Solder Tag (2.8×0.5mm)	Solder Tag (2.8×0.5mm)
Switching Function		No.3	No.2
Max.Switch Rating		5A/250VAC	5A/250VAC
Contact Resistance		≤50mΩ	≤50mΩ
Insulation Resistance		≥1000MΩ	≥1000MΩ
Dielectric Strength		2000VAC	2000VAC
Operation Temp.		-20℃ ~ +70℃	-20℃ ~ +70℃
Mechanical Life		1,000,000cycles	1,000,000cycles
Electrical Life		50,000 cycles	50,000 cycles
Contact Material		Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 10mm	1 ~ 10mm
Torque		5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N
IP Rating		IP67	IP67
Material	Actuator	Stainless Steel	Stainless Steel
	Body	Stainless Steel	Stainless Steel
	Base	PBT	PA
RoHS		Compliant	Compliant
LED Spec.	Type	Dot Illuminated(LED)	Dot Illuminated(LED)
	Rated Voltage	6V / 12V / 24V / 110V / 220V	6V / 12V / 24V / 110V / 220V
	Color	R G Y O B W	R G Y O B W
	Life	40,000 hours	40,000 hours

RING ILLUMINATED PUSH BUTTON

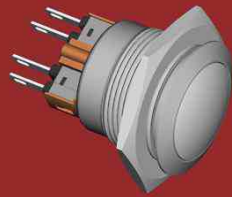

- ⊙ Φ19mm mounting
- ⊙ 5A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel
- ⊙ Ring Illuminated
- ⊙ IP Rating:IP67


RING ILLUMINATED PUSH BUTTON


- ⊙ Φ19mm mounting hole.
- ⊙ Combined Structure
- ⊙ 5A/250VAC
- ⊙ 1NO1NC/2NO2NC/
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel
- ⊙ Ring Illuminated
- ⊙ IP Rating:IP67

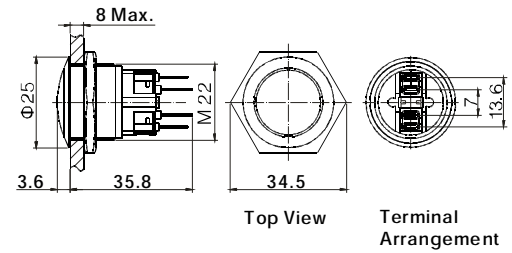
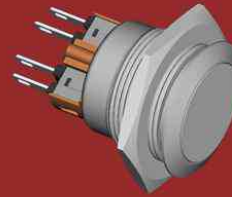


Series		EMP19-A□□□E	EMP19-B□□□E
Actuator Style		Flat	Flat
Terminal Type		Solder Tag (2.8×0.5mm)	Solder Tag (2.8×0.5mm)
Switching Function		No.3	No.2
Max.Switch Rating		5A/250VAC	5A/250VAC
Contact Resistance		≤50mΩ	≤50mΩ
Insulation Resistance		≥1000MΩ	≥1000MΩ
Dielectric Strength		2000VAC	2000VAC
Operation Temp.		-20℃ ~ +70℃	-20℃ ~ +70℃
Mechanical Life		1,000,000cycles	1,000,000cycles
Electrical Life		50,000 cycles	50,000 cycles
Contact Material		Silver Alloy	Silver Alloy
Panel Thickness		1 ~ 10mm	1 ~ 10mm
Torque		5 ~ 14Nm	5 ~ 14Nm
Operation Temp.		5.5N	5.5N
IP Rating		IP67	IP67
Material	Actuator	Stainless Steel	Stainless Steel
	Body	Stainless Steel	Stainless Steel
	Base	PBT	PA
RoHS		Compliant	Compliant
LED Spec.	Type	Ring Illuminated(LED)	Ring Illuminated(LED)
	Rated Voltage	6V / 12V / 24V / 110V / 220V	6V / 12V / 24V / 110V / 220V
	Color	R G Y O B W	R G Y O B W
	Life	40,000 hours	40,000 hours

PUSH BUTTON SWITCH
UNDER DEVELOPMENT

EAV22-B

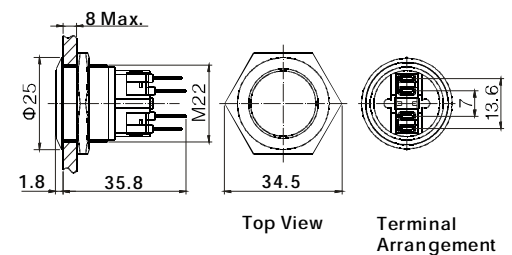
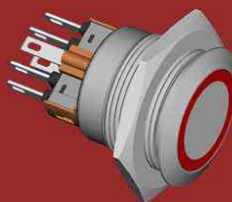
- ⊙ $\Phi 22$ mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO
- ⊙ Switching Function:No.3
- ⊙ Domed Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP67

For Reference


PUSH BUTTON SWITCH
UNDER DEVELOPMENT

EAV22-F

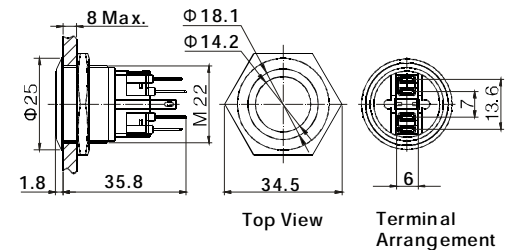
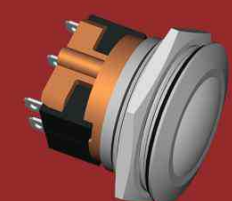
- ⊙ $\Phi 22$ mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO
- ⊙ Switching Function:No.3
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP67

For Reference


RING ILLUMINATED PUSH BUTTON SWITCH
UNDER DEVELOPMENT

EAV22-F

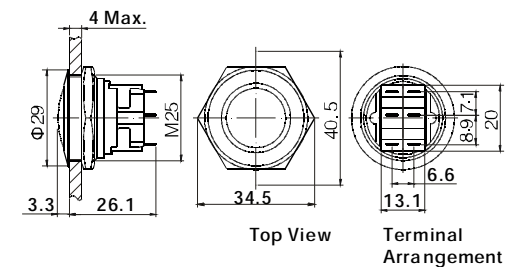
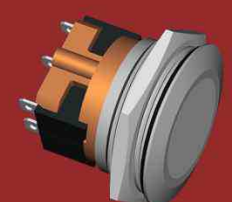
- ⊙ $\Phi 22$ mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO
- ⊙ Switching Function:No.3
- ⊙ Flat Actuator
- ⊙ The crust material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP67

For Reference


PUSH BUTTON SWITCH
UNDER DEVELOPMENT

EAV25-B

- ⊙ $\Phi 25$ mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Switching Function:No.3
- ⊙ Domed Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP67

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PUSH BUTTON SWITCH
UNDER DEVELOPMENT

EAV25-F

- ⊙ $\Phi 25$ mm mounting hole.
- ⊙ 5A/250VAC
- ⊙ 1NO1NC/2NO2NC
- ⊙ Switching Function:No.3
- ⊙ Flat Actuator
- ⊙ Body Material:Stainless Steel/
Brass(Nickel Plated,Gold Plated)
- ⊙ IP Rating:IP67

For Reference

