

CATALOGUE

INDEX

	Page	Family
ABOUT US?	2	
EOZ APPLICATIONS	3	
CONTENTS PRODUCES	4-5	
COMPONENTS		
1k2	8	A1
INTERDIL	9	A2
AUTODIL	10	A3
DILECO	11	A4
DILPIANO	12	A5
CIRDJET	13	A6
DJET Ø 6.35 mm		
Toggle Switch and Pushbutton	14	A7
DJET Ø 10mm		
Toggle Switch	15	A8
Pushbutton	16	A9
ACCESSORY DJET	17	A10
KEYPADS		
M.series	20	B1
M.series Axess	21	B2
S.series	22	B3
S.series Lite	23	B4
A.series	24	B5
ECO.series	25	B6
W.series	26	B7
KB.series	27	B8
PUSHBUTTONS Anti-vandal		
R.series Ø12 mm		
Round steel, Round and Square plastic actuator	30	C1
Illuminated round plastic actuator	31	C2
R.series Ø16 mm		
Slow-action contact	32	C3
Snap-action contact	33	C4
Dual color, Snap-action contact	34	C5
R.series Ø19 mm		
Slow-action contact	35	C6
Fast-action contact	36	C7
Single and Dual-colors, Snap-action contact	37	C8
R.series Ø22 mm		
Slow-action contact	38	C9
Micro-travel dual-color illuminated	39	C10
PIEZOELECTRIC		
P.series pushbutton Switches		
Non-illuminated, Snap-action contact	42	D1
Illuminated, Snap-action contact	43	D2
P.series Piezoelectric Keypads	44	D3
INDEX	45-47	

ABOUT US?

From miniature switches to vandal resistant pushbuttons, from standard keyboards to integrated front panels, our customers' requests evolve and become more complex.

EOZ succeeds in meeting the demands of adaptation and performance in extremely diverse business sectors. EOZ modified its functional structure in order to focus on the know-how we have acquired over the last 80 years.

The EOZ structure arose from this necessity and continues to pursue this direction in its research for future solutions.



From SECME to EOZ, a French experience

- 1932: Creation of SECME. It represents one of the oldest French companies specializing in electromechanical components.
- 1998: Group EAO and SECME becomes an SAS
- 2010: Creation of SAS EOZ by Mr Loïc Gauthier and Mrs Audrey Marques after acquisition of the assets from EAO SECME SAS



Indeed, in order to meet customer expectations and requirements ever more efficiently EOZ possesses

- An entire range of keyboards, components and customised interfaces
- Machines required for production and development of new projects
- Intellectual property goods (trademarks, patents, ...), including the brand SECME

The major advantage of EOZ lies in mastering all the phases of development of its product lines, from creation to commercialization.



EOZ APPLICATIONS

ACCESS CONTROL



MEDIA PUBLIC TERMINALS



PAYMENT SYSTEMS

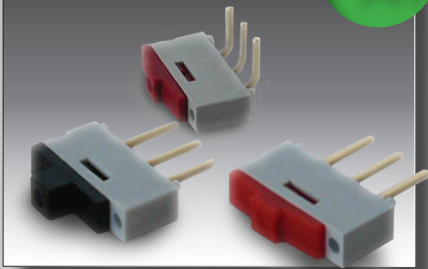


VENDING



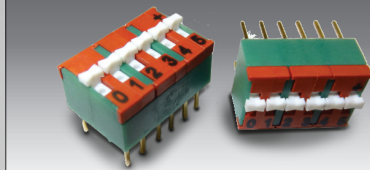
1K2

A1



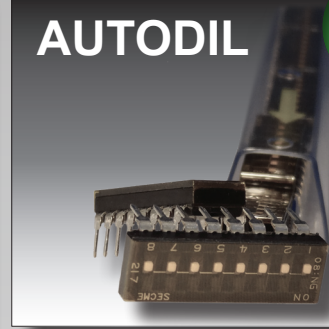
INTERDIL

A2



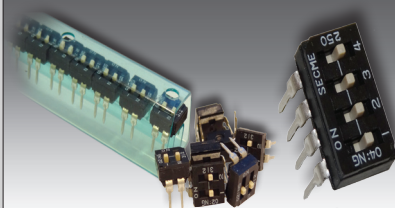
AUTODIL

A3



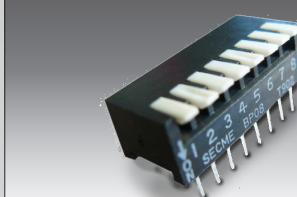
DILECO

A4



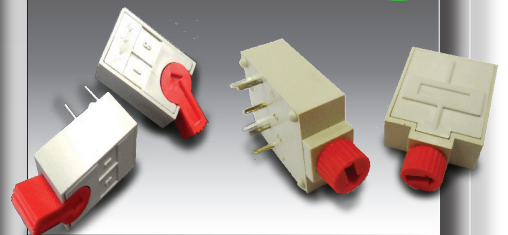
DILPIANO

A5



CIRDJET

A6



DJET $\varnothing 6.35\text{mm}$

A7

Toggle and pushbutton



DJET $\varnothing 10\text{mm}$

A8

Toggle



DJET $\varnothing 10\text{mm}$

A9

Pushbutton



DJET

A10

Accessory



M.series

B1



M.series Axess

B2



S.series

B3



S.series lite

B4



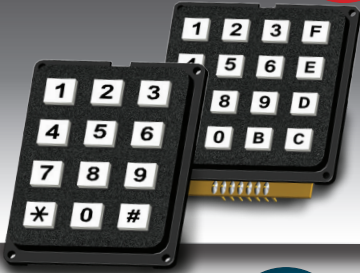
A.series

B5



ECO.series

B6



W.series

B7



KB.series

B8

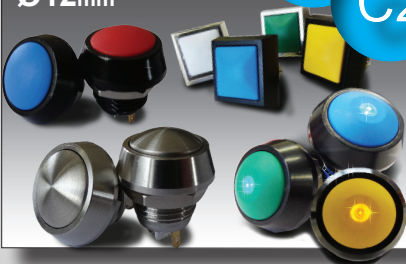


R.series

Ø12mm

C1

C2



R.series Ø16mm

Slow Action

C3



R.series

Ø16mm

Snap Action
and
Dual color

C4

C5



R.series Ø19mm

Slow Action

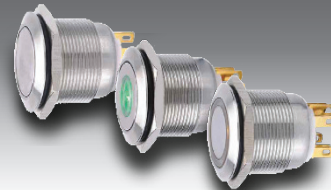
C6



R.series Ø19mm

Fast Action

C7



R.series Ø19mm

Snap Action and
Dual color

C8



R.series Ø22mm

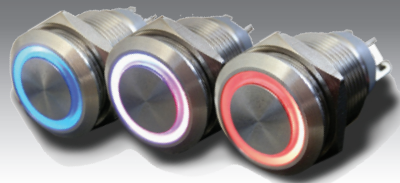
C9



R.series Ø22mm

Micro-actuation dual colors

C10



P.series

D1

Piezoelectric Switches
Non-illuminated, Snap-action



P.series

Piezoelectric Switches
Illuminated, Snap-action or
CONTINUOUS & TOGGLE function

D2



P.series

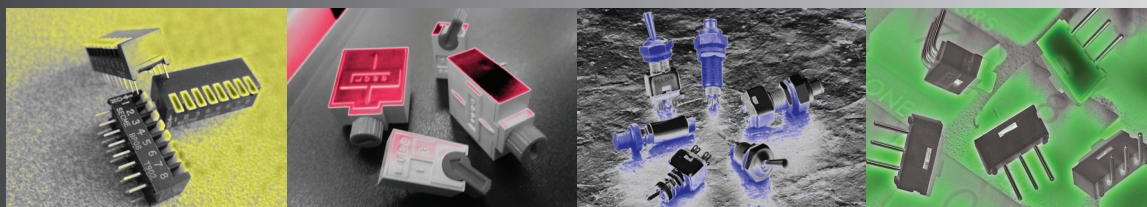
Piezoelectric Keypads

D3



MEMO

Handwriting practice lines consisting of 20 horizontal dotted lines.



COMPONENTS

1k2	8	A1
INTERDIL	9	A2
AUTODIL	10	A3
DILECO	11	A4
DILPIANO	12	A5
CIRDJET	13	A6
DJET Ø 6.35 mm		
Toggle Switch and Pushbutton	14	A7
DJET Ø 10mm		
Toggle Switch	15	A8
Pushbutton	16	A9

1K2

COMPONENTS

Recommended for all PCB applications as the most compact changeover switch on the market, the 1K2 is ideal as a jumper replacement.

A standard (red) or extended (black) slide actuator gives instant recognition of switch position.

Electrical life 1 000 operations

- Resistance to wave soldering at 250° C, 5 sec.
- Choice of straight or right angle PCB mounting
- Saline mist 24 hours, 96 hours (tropicalised version),
- Damp heat 4 days, 21 days (tropicalised version),
- Electrical life 1 000 operations
- Cursor position

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Nominal Current	500 mA
Minimum Current	1 mA
Nominal Voltage	12 V
Maximum Voltage	24 V
Minimum Voltage	10 mV
Electrostatic breakdown value	5 kV
Isolation resistance	≥10000 MΩ at 100Vdc
Contact resistance	≤22 Ω
Electrical life	1000
Electric strength as per EN IEC 60512-2	250 V _{rms} , 50 Hz, 1 min

MECHANICAL CHARACTERISTICS

Switching action	Maintained
Actuating travel	1.6 mm
Operating temperature	-40°C ... +85°C
Shock resistance as per IEC 60512-4-6c	50 g, 11 ms
Environmental resistance	Standard «Gold cont.» Tropical «Gold cont.»
- Damp heat as per EN IEC 60512-11f	4 days 21 days
- Saline mist as per EN IEC 60512-11f	24 hours 96 hours

Manual spot welding guideline

The 1K2 is designed for machine wave flow soldering.
If manual soldering needs to be done, the following guidelines have to be adhered to (in accordance to IEC 60068-2-20):

Size of tip of soldering iron: 3mm dia.

- Type of solder: Sn/Ag/Cu
- Soldering temperature: 350°C at 370°C
- Soldering time: 1s at 5s max
- In order to avoid overheating, a small break has to be observed between each solder-application
- The soldering iron has to be kept clean at all times.
- It is mandatory to tin the tip of the soldering iron before the soldering can take place.
- When soldering, the tip of the iron has to first pre-heat the «inter-section» between pin and circuit, before applying the solder.

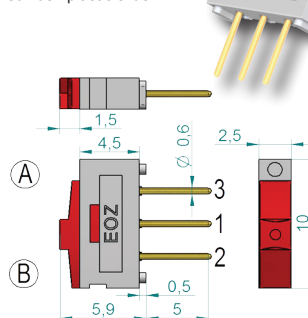
STANDARD PART NUMBERS

Change-over slide switch 1-pole	Part Numbers
Pins axial (standard version), slider plastic black raised	09.03290.01
Pins axial (standard version), slider plastic red flush	09.03201.02
Pins axial (3 mm), slider plastic black raised	09.03290.01X116
Pins axial (3 mm), slider plastic red flush	09.03201.02X115
Pins axial (tropicalised version), slider plastic red flush	19.03201.01
Pins bent at right-angles (standard version) slider plastic black raised	09.10290.01
Pins bent at right-angles (standard version) slider plastic red flush	09.10201.02

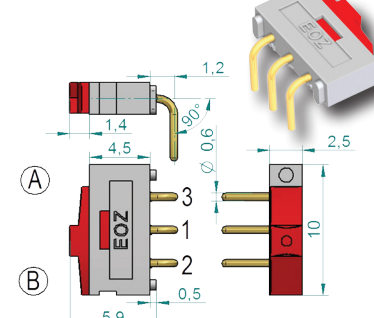
Further options and information available: www.eozonline.com

DIMENSIONS

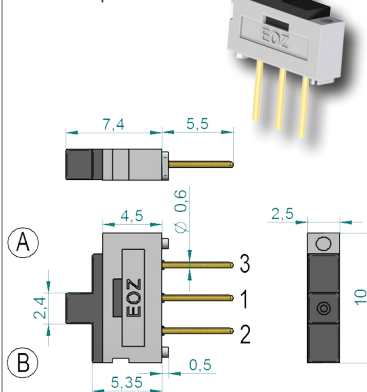
Pins axial (standard version),
Red flush plastic slider



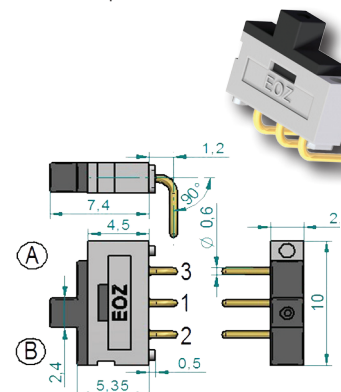
Right-angles bented pins (standard version)
Red flush plastic slider



Pins axial (standard version),
Black raised plastic slider

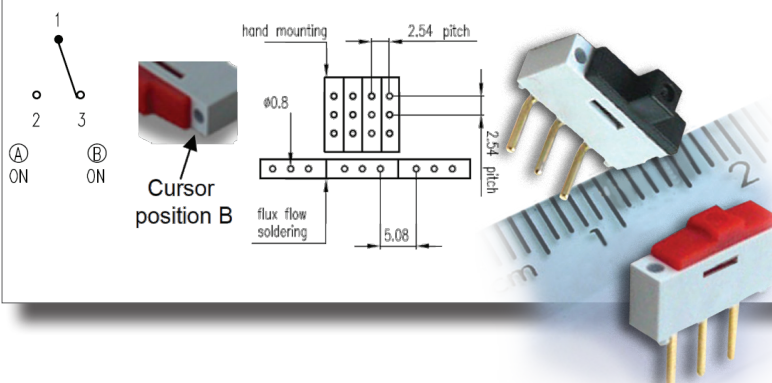


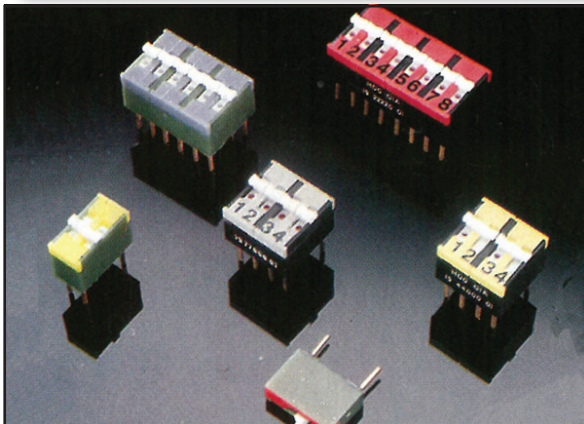
Right-angles bented pins (standard version)
Black raised plastic slider



CONNEXIONS

MOUNTING





COMPONENTS

Recommended for all PCB applications as the most compact changeover switch

Electrical life 3 000 operations

- Resistance to wave soldering at 250° C, 5 sec.
- Saline mist 96 hours tropicalised version,
- Damp heat 10 days, 21 days (tropicalised version),
- Self-extinguishing as per UL 94VO

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Nominal Current	500 mA
Minimum Current	1 mA
Nominal Voltage	12 V
Maximum Voltage	24 V
Minimum Voltage	10 mV
Contact power rating	6 W
Isolation resistance	≥10000 MΩ at 500Vdc
Contact resistance	≤30 mΩ
Electrical life	3000
Electric strength	as per EN IEC 60512-2 250 V _{rms} , 50 Hz, 1 min

MECHANICAL CHARACTERISTICS

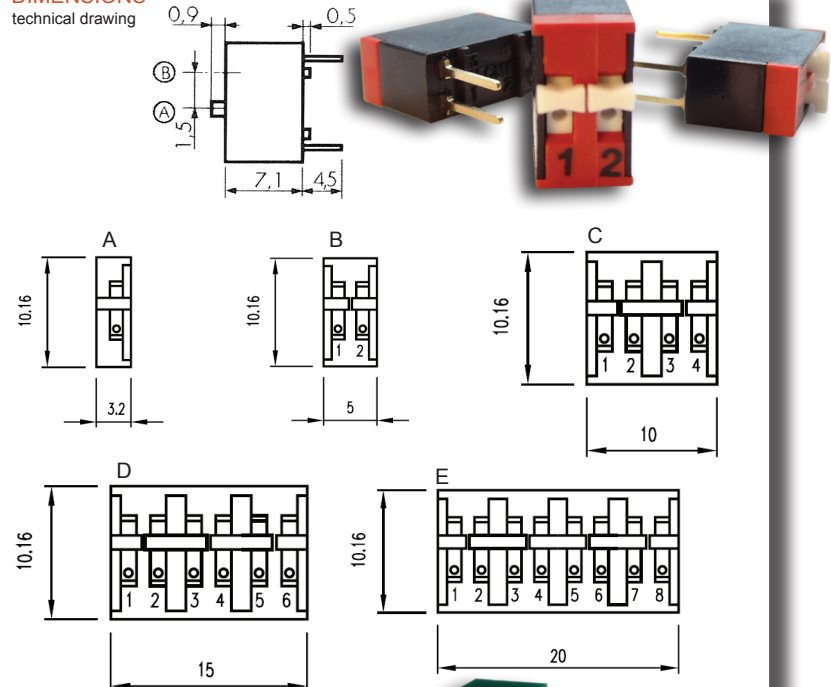
Switching action	Maintained	
Actuating travel	1.5 mm nominal	
Operating temperature	-40°C ... +85°C	
Shock resistance as per NFC 20708	30 g	
Environmental resistance	Standard «gold-plated cont.»	Tropical «gold cont.»
- Damp heat as per EN IEC 60512-11f	10 days	21 days
- Saline mist as per EN IEC 60512-11f	-	96 hours

STANDARD PART NUMBERS

PCB slide switch	no. of poles	PCB Technical drawing	Part Numbers
Switch tropical contact output in sealed, wave soldering.	1	2 A	19.10000.01
Switch standard contact, not in sealed exit, no wave soldering.	1	2 A	09.10000.03
Switch standard contact output in sealed, wave soldering.	1	2 A	09.10000.39
Switch tropical contact output in sealed, wave soldering.	2	7 B	19.20000.01
Switch standard contact, not in sealed exit, no wave soldering.	2	7 B	09.20000.03
Switch standard contact output in sealed, wave soldering.	2	7 B	09.20000.39
Switch tropical contact output in sealed, wave soldering.	4	9 C	19.22000.01
Switch standard contact, not in sealed exit, no wave soldering.	4	9 C	09.22000.03
Switch standard contact output in sealed, wave soldering.	4	9 C	09.22000.39
Switch tropical contact output in sealed, wave soldering.	6	8 D	19.22200.01
Switch standard contact output in sealed, wave soldering.	6	8 D	09.22200.39
Switch tropical contact output in sealed, wave soldering.	8	6 E	19.22220.01
Switch standard contact output in sealed, wave soldering.	8	6 E	09.22220.39
Changeover tropical contact output in sealed, wave soldering.	1	1 B	19.40000.01
Changeover standard contact, not in sealed exit, no wave soldering.	1	1 B	09.40000.03
Changeover standard contact output in sealed, wave soldering.	1	1 B	09.40000.39
Changeover standard contact output in sealed, wave soldering.	2	3 C	09.44000.39
Changeover standard contact output in sealed, wave soldering.	3	5 D	09.44400.39
Changeover standard contact output in sealed, wave soldering.	4	4 E	09.44440.39
Double Switch standard contact output in sealed, wave soldering.	1	10 B	09.70000.39
Double Switch standard contact output in sealed, wave soldering.	2	11 C	09.77000.39
Double Switch standard contact, not in sealed exit, no wave soldering.	1	10 B	09.70000.03

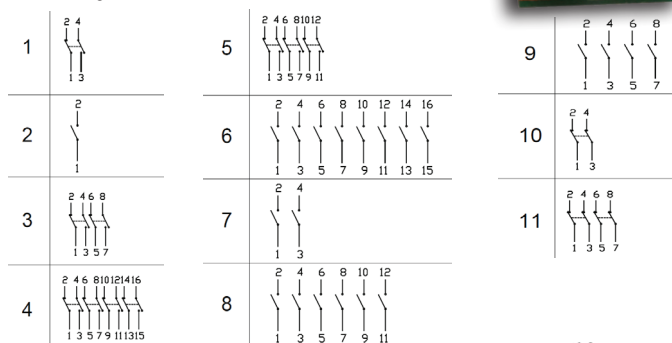
DIMENSIONS

technical drawing

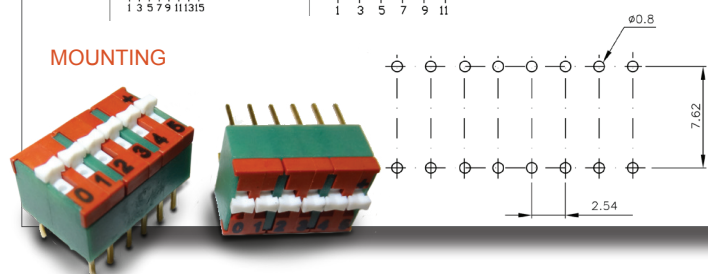


CONNEXIONS

Circuit drawing



MOUNTING

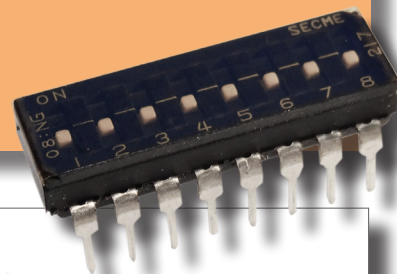


COMPONENTS

Recommended for all PCB applications as the most compact changeover switch on the market

Electrical life 1 000 operations

- Resistance to wave soldering at 250° C, 5 sec.
- Low profile dip switch
- Auto insertable
- Damp heat 21 days



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Nominal Current	50 mA
Minimum Current	1 mA
Nominal Voltage	24 V
Maximum Voltage	50 V
Minimum Voltage	50 mV
Contact power rating	2 W
Isolation resistance	≥10000 MΩ at 500Vdc
Contact resistance	≤30 mΩ
Electrical life	1000
Electric strength as per EN IEC 60512-2	250 V _{rms} , 50 Hz, 1 min

MECHANICAL CHARACTERISTICS

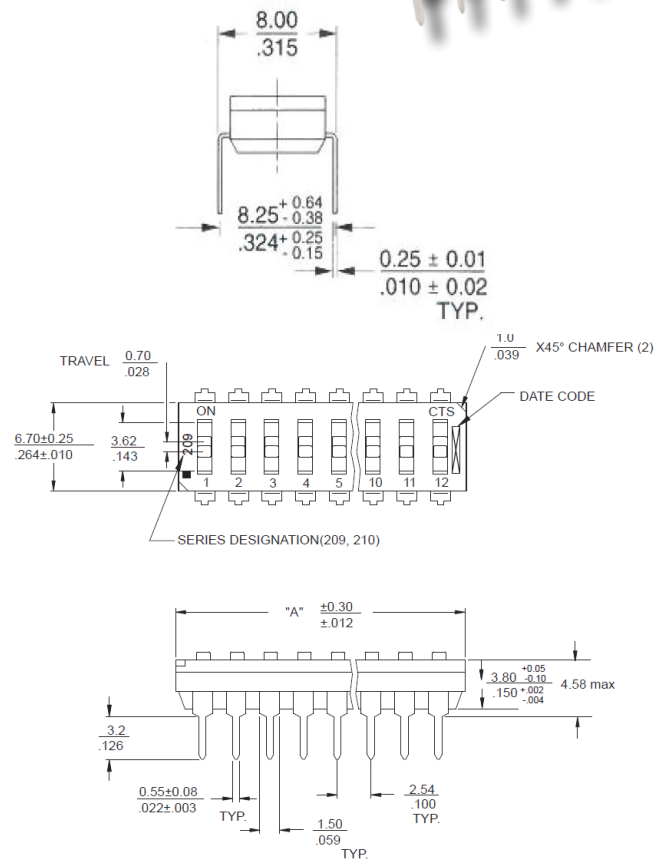
Switching action	Maintained / Off-On
Actuating travel	1.27 mm
Operating temperature	-20°C ... +85°C
Storage temperature	-40°C ... +85°C
Environmental resistance	
- Damp heat as per EN IEC 60512-11f	21 days
- Saline mist as per EN IEC 60512-11f	48 hours

STANDARD PART NUMBERS

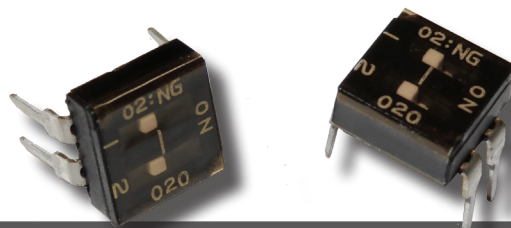
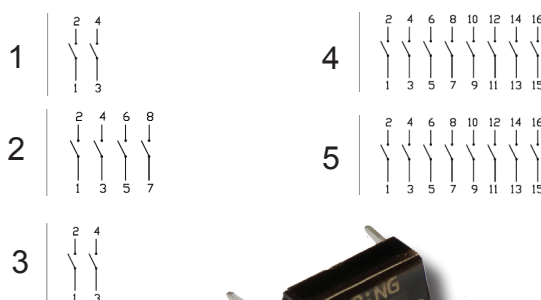
Autodil slide switch	eAa (mm) dimension	Quantity per tube	circuit drawing	Part Numbers
Dip-Switch 02 Poles	6.55	85	1	09.20040.02
Dip-Switch 04 Poles	11.63	45	2	09.20040.04
Dip-Switch 06 Poles	16.71	30	3	09.20040.06
Dip-Switch 08 Poles	21.79	25	4	09.20040.08
Dip-Switch 10 Poles	26.87	20	5	09.20040.10

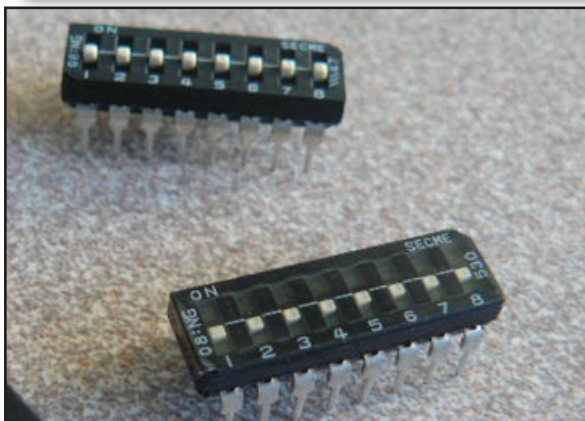
Further options and information available: www.eozonline.com

DIMENSIONS



CONNEXIONS



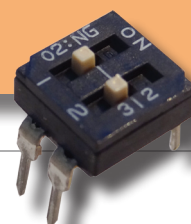


COMPONENTS

Recommended for all PCB applications as the most compact changeover switch on the market. Contactor does not deflect during actuation

Electrical life 1 000 operations

- Resistance to wave soldering at 250° C, 6 sec.
- Dip switch locost
- Redundant, wiping contact
- RoHS compliant.
- Available with low profile, medium and extended height



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Contact rating	
Non switching	100 mA or 50VDC maximum
Switching	100 mA, 20 VDC
Dry circuit	0.1 mA, 5 VDC
Switch capacitance	5 pf
Isolation resistance	≥1000 MΩ at 100Vdc
Contact resistance	100mΩ Min. ≤ 500mΩ Max.
Electrical life	1000
Electric strength	500VDC, 1 min., between adjacent switches

MECHANICAL CHARACTERISTICS

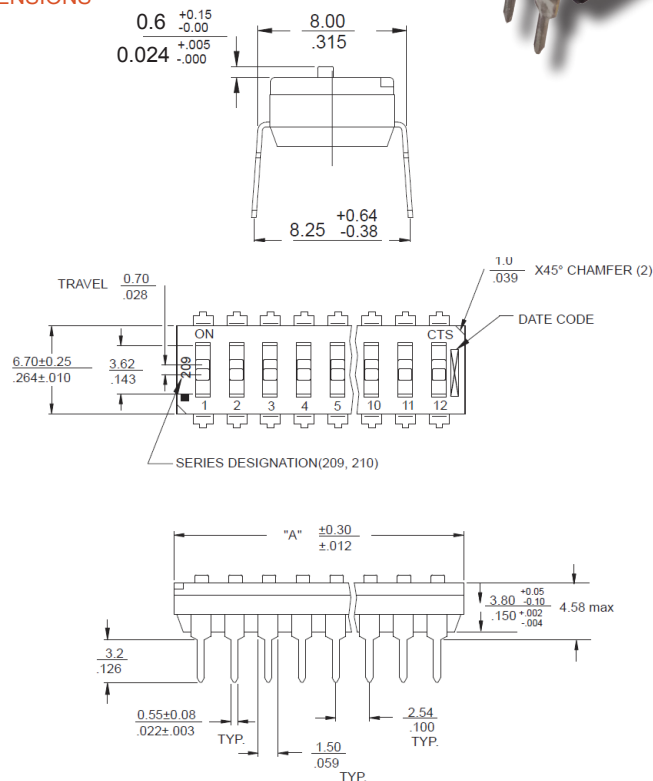
Switching action	Maintained
Operating temperature	-40°C ... +85°C
Vibration	15 G's between 10 Hz to 2K Hz
Shock resistance	50 G's
Environmental resistance	
- Damp heat	as per EN IEC 60512-11f 21 days
	as per EN IEC 60512-11f 48 hours

STANDARD PART NUMBERS

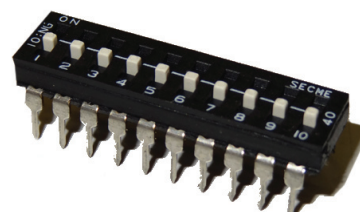
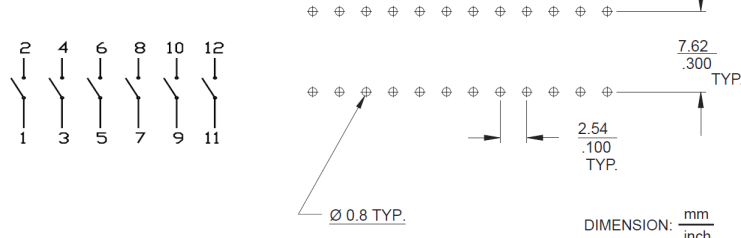
Standard raised actuators 0.6mm version 4.4mm height on PCB	±As (mm) dimension	Quantity per tube	Part Numbers
Dip-Switch 02 Poles	6.55	85	09.300BH.02
Dip-Switch 03 Poles	9.09	60	09.300BH.03
Dip-Switch 04 Poles	11.63	45	09.300BH.04
Dip-Switch 05 Poles	14.17	40	09.300BH.05
Dip-Switch 06 Poles	16.71	40	09.300BH.06
Dip-Switch 08 Poles	21.79	25	09.300BH.08
Dip-Switch 10 Poles	26.87	20	09.300BH.10
On request, flat actuators version 3.8mm height on PCB			
Dip-Switch 04 Poles	11.63	1	09.28940.04
Dip-Switch 06 Poles	16.71	1	09.28940.06

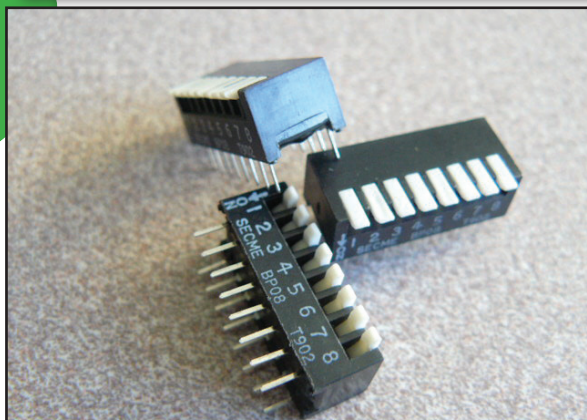
Further options and information available: www.eozonline.com
Anti-Static tube packaging

DIMENSIONS



CONNEXIONS





COMPONENTS

Recommended for all PCB applications as the most compact changeover switch on the market.

Electrical life 1 000 operations

- Resistance to wave soldering at 260° C, 5 sec.
- Lock-over-center design provides positive detent action
- Tin plated terminals for better solderability
- UL 94V-0 plastics
- RoHS compliant

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Contact rating	
Non switching	100 mA or 50VDC maximum
Switching	50 mA, 24 VDC
Switch capacitance	
<5 pf max between adjacent closed switches	
Isolation resistance	
≥1000 MΩ at 100Vdc	
Contact resistance	
100mΩ Min. ≤ 500mΩ Max.	
Electrical life	
2000 switching 50 mA @ 24 VDC	
Electric strength	
500 VAC for 1 min, between adjacent switches	

MECHANICAL CHARACTERISTICS

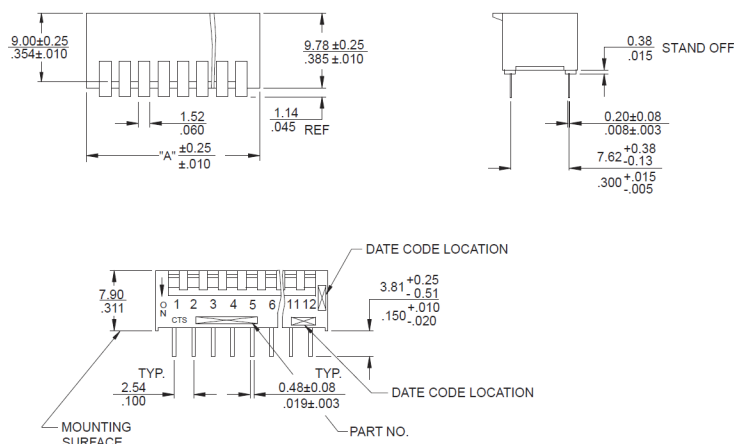
Switching action	
Maintained	
Operating temperature	
-40°C ... +85°C	
Vibration	
15 G's between 10 HZ to 2K HZ	
Shock resistance	
25 g	
Environmental resistance	
- Damp heat as per EN IEC 60512-11f	
- Saline mist as per EN IEC 60512-11f	

STANDARD PART NUMBERS

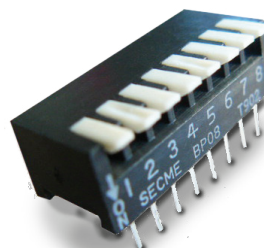
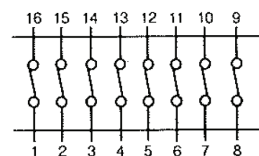
Slide switch	eAa (mm) dimension	Quantity per tube	Part Numbers
Switch 02 Poles	7.26	75	09.400BP.02
Switch 04 Poles	12.34	45	09.400BP.04
Switch 06 Poles	17.42	30	09.400BP.06
Switch 08 Poles	22.50	25	09.400BP.08

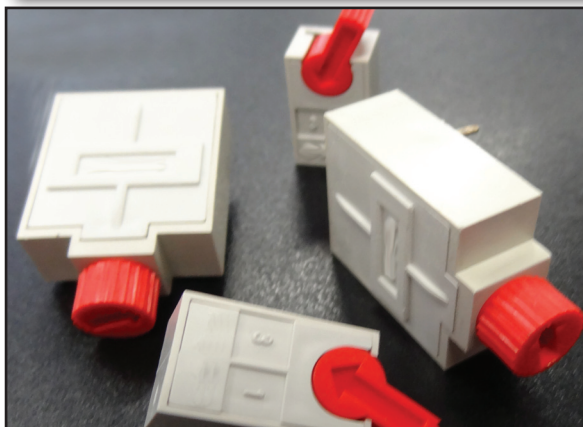
Further options and information available: www.eozonline.com

DIMENSIONS



CONNEXIONS





Single or double pole inverters (rotary) to gold or silver contact.

- Resistance to soldering at 250° C, 3 sec.
- Switching capacity 100 μ A at 1.5 A

ELECTRICAL SPECIFICATIONS

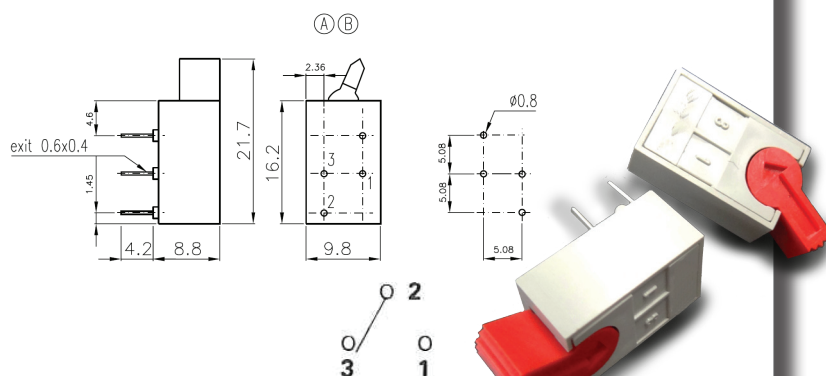
	Standard «Silver cont.»	Tropical «Gold cont.»
Nominal Current	4.5 A	4.5 A
Minimum Current	50 mA	100 μ A
Nominal Voltage	12 V	12 V
Maximum Voltage	220 V at 1.5A	220 V at 1.5A
Minimum Voltage	10 V	10 mV
Switch capacitance	<2 pF	
Isolation resistance	$\geq 10\,000\,\text{M}\Omega$ at 500V	
Contact resistance	$\leq 10\,\text{m}\Omega$	
Electrical life	20 000	
Electric strength	1 kV eff, 50 Hz, 1 min., as per EN IEC 60512-2	

Switching action	Maintained
Operating temperature	-40°C ... +85°C
Storage temperature	-55°C ... +85°C
Environmental resistance	
- Damp heat as per EN IEC 60512-11f	56 days Tropical «Gold cont.»
- Saline mist as per EN IEC 60512-11f	96 days Tropical «Gold cont.»

PCB toggle switch «packaging of 20pcs»	Standard «Silver cont.»	Tropical «Gold cont.»
Switch 2 poles, 2 positions Maintained action	06.17631.19	16.17681.19
Switch 1 poles, 2 positions Momentary action	06.17672.19	16.17682.19
PCB rotary switch «packaging of 10pcs»		
Switch 2 poles, 2 positions Maintained action	06.17613.19	16.17663.19

Further options and information available: www.eozonline.com

TOGGLE SWITCH



Recommended for outdoor applications, military and avionics equipment, telecommunications, medical equipment, power supplies. The professional toggle and pushbutton switches are in one or two pole version available.

- Front panel thickness: Min. 1.2 mm
- Tightening torque: Rear nut 125 Ncm
- Damp heat: 56 days (Gold contact versions only)
- Switching system: Positive snap-action

Further options and information available: www.eozonline.com

Technical drawing of a shaft with a hole and a pin. The hole has a diameter of 6.4 mm and a tolerance of +0.1/-0. The pin has a diameter of 2 mm and a tolerance of +0.05/-0. The hole is 5.2 mm deep.



DJET Ø 10mm Toggle Switch



COMPONENTS

Recommended for outdoor applications, military and avionics equipment, telecommunications, medical equipment, power supplies. The professional toggle switches are available in one or two pole version. The switches are IP 67 front sealed or IP 65 with fitted silicone cap.

Electrical life 100 000 operations

- Switching system: positive snap-action
- Front panel thickness: Min. 1.2 mm
- Damp heat 56 days (Gold contact versions only)

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

	Standard «silver cont.»	Tropical «gold cont.»
Operating: voltage	10V	10 mV
current	50 mA	100 µA
Switch rating «Resistive circuit»		
Voltage	220 V 110 V 48 V 24 V 12 V	
Current	1.5A 2.5A 1A 2.25A 4.5A	
Inductive circuit: 50 % of above values		
Isolation resistance	≥100000 MΩ at 500Vdc	
Contact resistance	≤10 mΩ	≤10 mΩ
Electrical life	100 000	100 000
Electric strength	1000 Vrms, 50 Hz between terminals on the same pole 2000 Vrms, 50 Hz between all terminals connected together and ground 2000 Vrms, 50 Hz between terminals of adjacent poles	

MECHANICAL CHARACTERISTICS

Storage temperature	-40 °C ... +85 °C	
Operating temperature	-40 °C ... +85 °C	
Protection degree	IP 67 (sealed 10 mm dia. version only) IP 65 with protective cap	
Shock resistance	as per IEC 60512-4	100 g
Environmental resistance	Standard «silver cont.»	Tropical «gold cont.»
- Damp heat	as per EN IEC 60512-11f	56 days
- Saline mist	as per EN IEC 60512-11f	96 hours

STANDARD PART NUMBERS

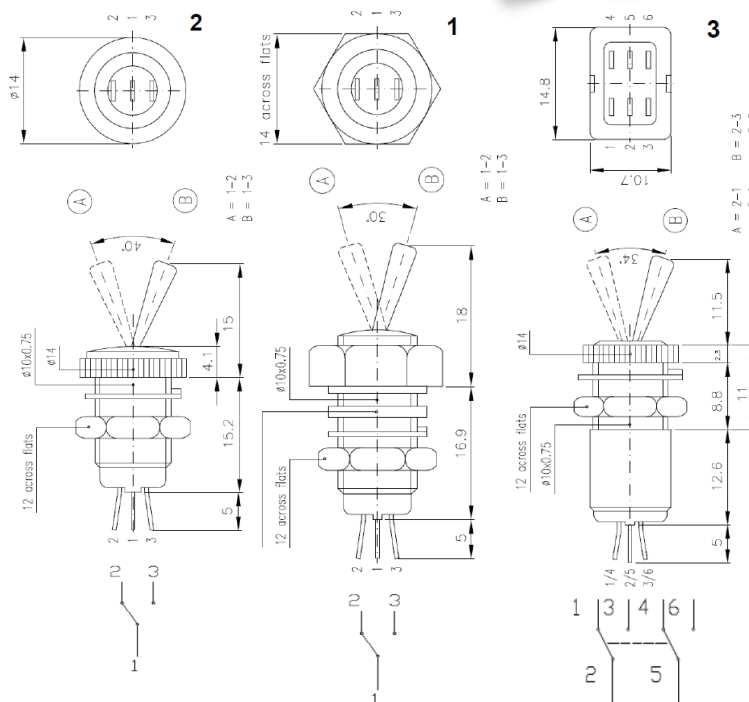
Toggle switch Ø10mm metal	mat-black	Switching action	contact	Numbers	Technical drawing
• Tropical «gold» contact, IP67 «front sealing»	MA-MA	1		11.17201.30	1
Toggle switch Ø10mm metal	mat-chrome				
• Tropical «gold» contact, IP67 «front sealing»	MA-MA	1		11.17201.22	1
• Standard «silver» contact, IP67 «front sealing»	MA-MA	1		11.17271.22	1
• Standard «silver» contact, IP67 «front sealing»	MA-MA	2		12.17273.22	3
Toggle switch Ø10mm metal	chrome				
• Tropical «gold» contact	MA-MA	1		11.17051.21	2
• Tropical «gold» contact	MA-MA	2		12.17063.21	3
• Standard «silver» contact	MA-MA	1		01.17001.21	2
• Standard «silver» contact	MA-MA	2		02.17013.21	3

Switching action: MA= Maintained, MO= Momentary

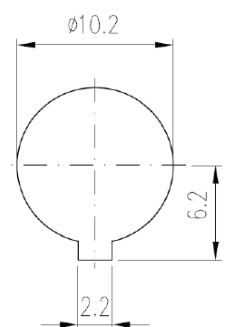
Further options and information available: www.eozonline.com

DIMENSIONS

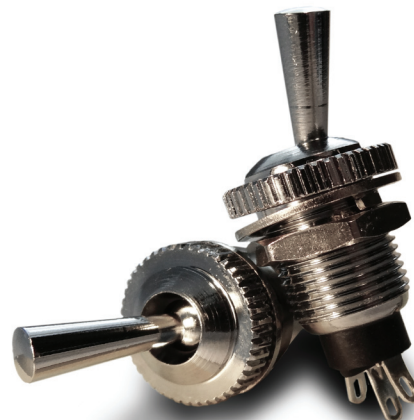
technical drawing



MOUNTING



Tolerance +0.1
-0 mm



DJET Ø 10mm PUSHBUTTON

A9



COMPONENTS

Recommended for outdoor applications, military and avionics equipment, telecommunications, medical equipment, power supplies. The professional toggle switches are available in one or two pole version. The switches are IP 67 front sealed or IP 65 with fitted silicone cap.

Electrical life 100 000 operations

- Switching system: positive snap-action
- Front panel thickness: Min. 1.2 mm
- Damp heat 56 days (Gold contact versions only)



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

	Standard «silver cont.»	Tropical «gold cont.»
Operating voltage	10V	10 mV
current	50 mA	100 µA
Switch rating «Resistive circuit»		
Voltage	220 V 110 V 48 V	24 V 12 V
Current	1.5A 2.5A 1A	2.25A 4.5A
Inductive circuit: 50 % of above values		
Isolation resistance	≥100000 MΩ at 500Vdc	
Contact resistance	≤10 mΩ	≤10 mΩ
Electrical life	100 000	100 000
Electric strength	1000 Vrms, 50 Hz between terminals on the same pole 2000 Vrms, 50 Hz between all terminals connected together and ground 2000 Vrms, 50 Hz between terminals of adjacent poles	

MECHANICAL CHARACTERISTICS

Storage temperature	-40 °C ... +85 °C	
Operating temperature	-40°C ... +85°C	
Protection degree	IP 67 (sealed 10 mm dia. version only) IP 65 with protective cap	
Shock resistance as per IEC 60512-4	100 g	
Environmental resistance	Standard «silver cont.»	Tropical «gold cont.»
- Damp heat as per EN IEC 60512-11f	-	56 days
- Saline mist as per EN IEC 60512-11f	-	96 hours

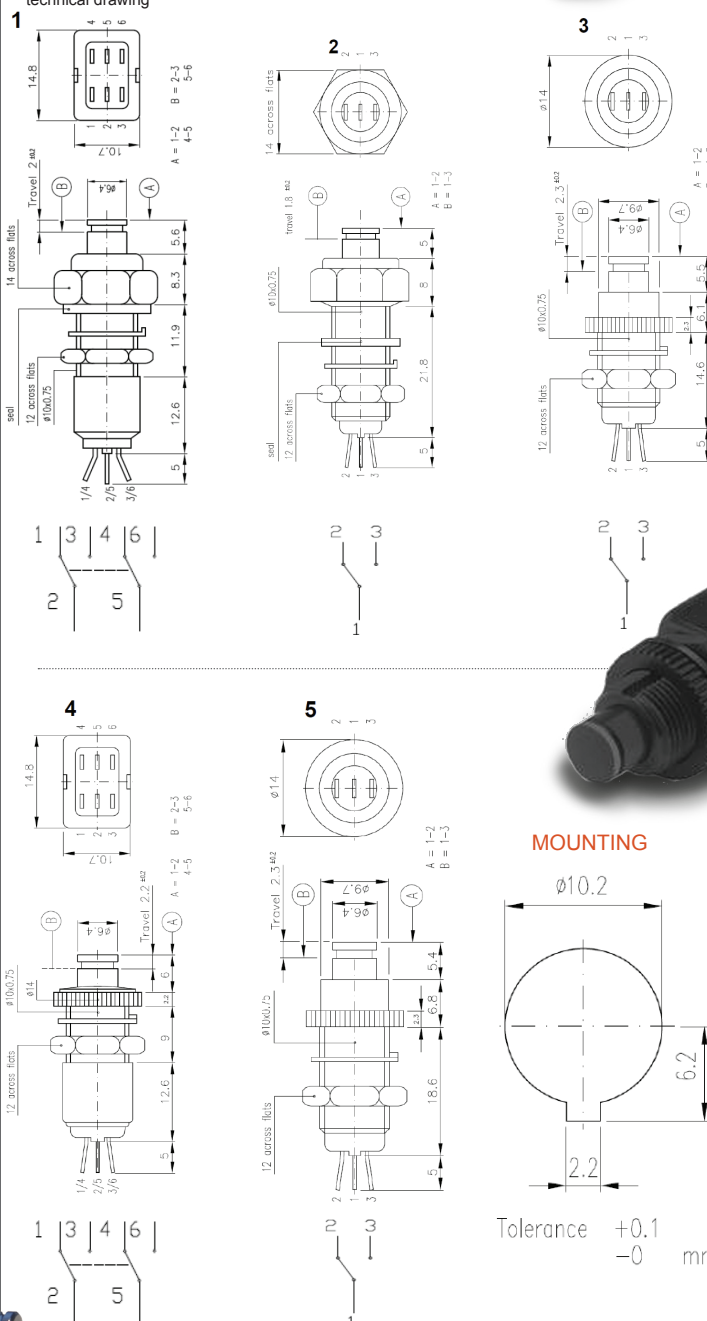
STANDARD PART NUMBERS

Pushbutton Ø10mm metal mat-black	Switching action	contact	Numbers	Technical drawing
• Tropical «gold» contact, IP67 «front sealing»	MA-Mo	2	18.17253.30	1
• Tropical «gold» contact, IP67 «front sealing»	MA-Mo	1	17.17252.30	2
• Standard «silver» contact, IP67 «front sealing»	MA-Mo	1	17.17282.30	2
• Tropical «gold» contact	MA-Mo	1	17.17551.30	5
• Tropical «gold» contact	MA-Mo	1	17.17552.30	3
• Tropical «gold» contact	MA-Mo	2	18.17563.30	4
Pushbutton Ø10mm metal mat-chrome				
• Tropical «gold» contact, IP67 «front sealing»	MA-Mo	1	17.17252.22	2
• Standard «silver» contact, IP67 «front sealing»	MA-Mo	1	17.17282.22	2
Pushbutton Ø10mm metal chrome				
• Tropical «gold» contact, IP67 «front sealing»	MA-Mo	2	18.17253.22	1
• Standard «silver» contact, IP67 «front sealing»	MA-Mo	2	18.17283.22	1
• Tropical «gold» contact	MA-Mo	1	17.17552.21	3
• Tropical «gold» contact	MA-Mo	2	18.17563.21	4
• Standard «silver» contact	MA-Mo	1	07.17502.21	3
• Standard «silver» contact	MA-Mo	2	08.17513.21	4

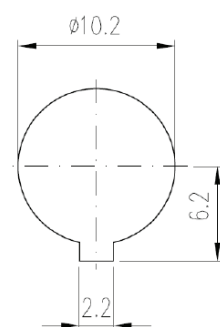
Switching action: MA= Maintained, Mo= Momentary

Further options and information available: www.eozonline.com

DIMENSIONS technical drawing



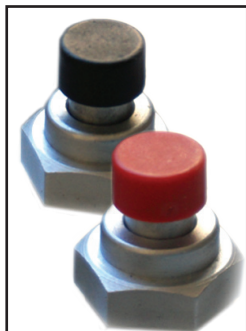
MOUNTING



Tolerance +0.1
-0 mm

Accessories DJET

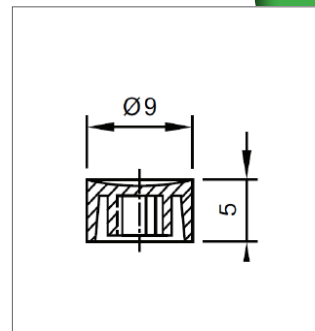
Toggle Switch and Pushbutton



Cap for pushbutton Ø 6.35 mm

Type	Front ring	Reference
Cap Ø 9 mm	Plastic black	20.17804.01

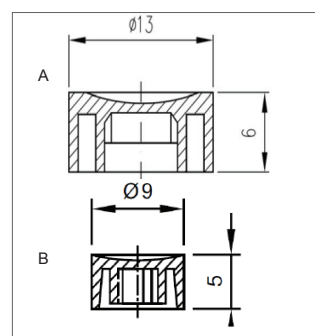
Type	Front ring	Reference
Cap Ø 9 mm	Plastic red	20.17804.02



Cap for pushbutton Ø 10 mm

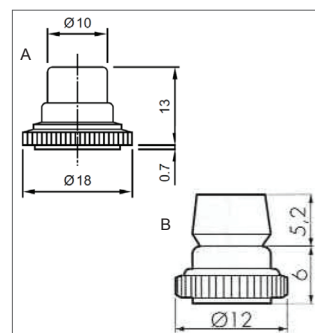
Type	Front ring	Reference	Draw.
Cap Ø 9 mm	Plastic black	20.17504.01	B
Cap Ø 13 mm	Plastic black	20.17254.01	A

Type	Front ring	Reference	Draw.
Cap Ø 9 mm	Plastic red	20.17504.02	B



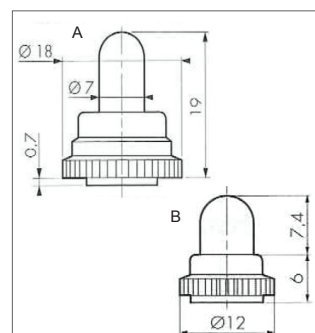
Protective cap for pushbutton with black silicone cap

Type	Front ring	Reference	Draw.
Cap Ø 10 mm	Metal chrome	20.17292.21	A
Cap Ø 6.35 mm	Metal chrome	20.25292.21	B
Cap Ø 6.35 mm	Metal black	20.25292.30	B



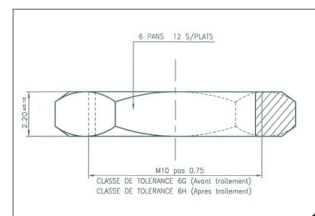
Protective cap for toggle switch with black silicone cap

Type	Front ring	Reference	Draw.
Cap Ø 10 mm	Metal chrome	20.17291.21	A
Cap Ø 6.35 mm	Metal chrome	20.25291.21	B
Cap Ø 6.35 mm	Metal black	20.25291.30	B



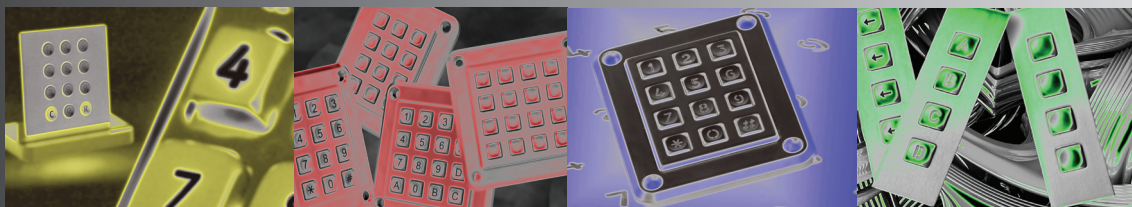
Hexagon nut for pushbutton

Type	Front ring	Reference
Ø10 mm	Metal chrome matt	20.17016.21



MEMO

Handwriting practice area with 20 horizontal dotted lines.



KEYPADS

M.series	20	B1
M.series Axess	21	B2
S.series	22	B3
S.series Lite	23	B4
A.series	24	B5
ECO.series	25	B6
W.series	26	B7
KB.series	27	B8

M.series



Keypads

Thanks to a 30 years experience in the conception and manufacturing of keypad devices, EOZ has developed the M.series keypad range, designed to operate in varied environments and which can be used in different applications.

Electrical life dome version 1 million actuations

Electrical life membrane version 4 millions actuations

- Choice available for key shape and dimension
- Anti-twist keys and anti pull off keys
- Laser engraving for a high flexibility
- Standard colours of keys (other colours available):
 - Key top: natural (grey), green, red, yellow
 - Illumination: yellow and blue (standard)



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power supply:	5 VDC, 240mA max
Illuminated versions:	blue, red, green, yellow and white.
<i>NOTE: A load resistor may need to be connected by the customer in order to power the LED's correctly.</i>	
Contact resistance	Dome version: < 1 Ohm Membrane version: < 200 Ohms
Electrostatic breakdown value	15kV with a metallic front plate

MECHANICAL CHARACTERISTICS

Storage temperature	-40°C to +85°C (-30°C for illuminated)	
Operating temperature	-25°C to +85°C	
Protection degree	IP 67 (front face)	
Shock resistance	IK 09 for standard versions with a 3mm thick front plate	
Actuation force:	Dome version: 4.5N +/- 30%	Membrane version: 1.9N +/- 30%
Key travel:	0.5 ± 0.3 mm	1 ± 0.3 mm
Lifetime (cycles / key):	1 million actuations	4 million actuations
Environmental resistance		
- Damp heat (@+40°C) as per EN IEC 60512-6	21 days	
- Saline mist as per EN IEC 60512-6	96 Hours	
- Dry heat (@+85°C) as per EN IEC 60512-6	21 days	
- UV resistance	56 days	

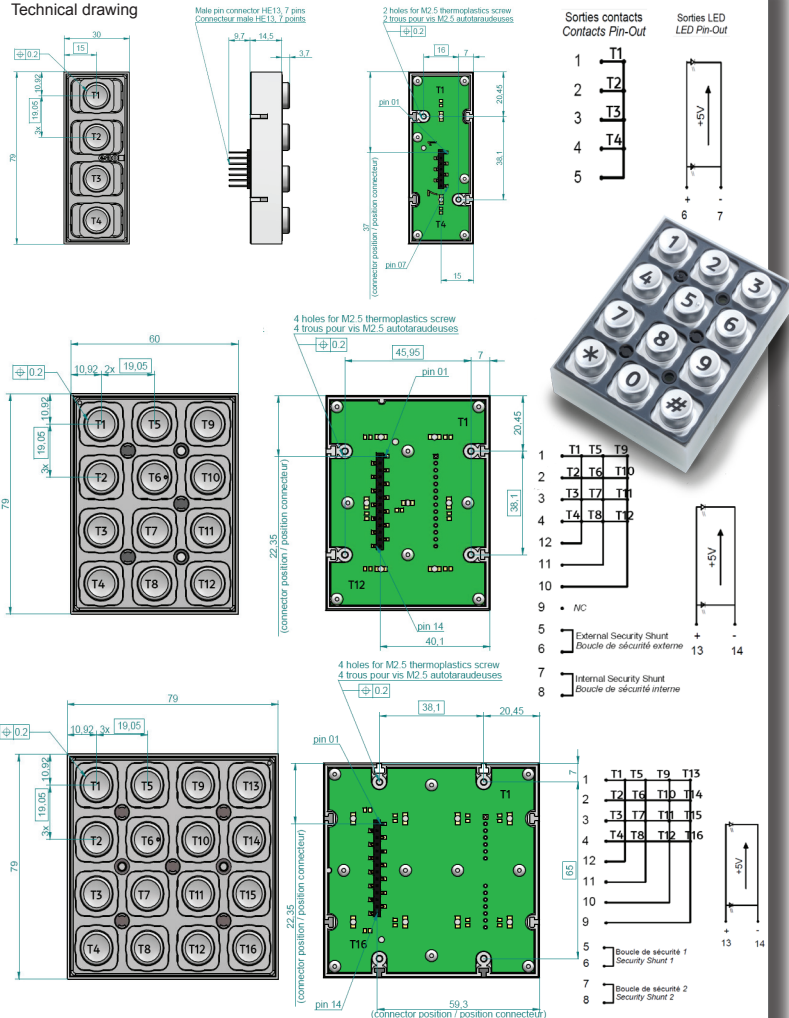
STANDARD PART NUMBERS

Key version with marking	Interface	Part numbers
4 Key version with marking 1.2.3.4	Interface	
• Non illuminated membrane	Common point	M04PARSANLPA
• Non illuminated domes	Common point	M04PARSANSPPA
• Yellow illuminated membrane	Common point	M04IARSAYLPA
• Yellow illuminated domes	Common point	M04IARSAYSPPA
12 Key version with marking Telephone	Matrix	
• Non illuminated membrane	Matrix	M12PARSANLMT
• Non illuminated domes	Matrix	M12PARSANSMT
• Yellow illuminated membrane	Matrix	M12IARSAYLMT
• Yellow illuminated domes	Matrix	M12IARSAYSMT
• Blue illuminated membrane	Matrix	M12IARSABLMT
• Blue illuminated domes	Matrix	M12IARSABSMT
16 Key version with marking Hexadecimal	Matrix	
• Non illuminated membrane	Matrix	M16PARSANLMH
• Non illuminated domes	Matrix	M16PARSANSMH
• Yellow illuminated membrane	Matrix	M16IARSAYLMH
• Yellow illuminated domes	Matrix	M16IARSAYSMH
• Blue illuminated membrane	Matrix	M16IARSABLMH
• Blue illuminated domes	Matrix	M16IARSABS MH
16 Key version with marking Banking	Matrix	
• Non illuminated membrane	Matrix	M16PARSANLMB
• Non illuminated domes	Matrix	M16PARSANSMB

Further options and information available: www.eozonline.com

DIMENSIONS

Technical drawing



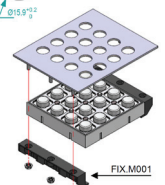
MOUNTING

The keypads can be mounted from the rear, with different options possible:

- New mounting kit available from EOZ, with 2 mounting clips made of ABS polycarbonate
- 4 holes in the back of the housing of the keypad for customised integration
- Tightening torque: 50 Ncm ± 5 Ncm (screws for thermoplastic)

TYPE OF STANDARD KEYS

- Standard colors: Natural aluminium, red, yellow and green
- Specific colors on request: blue, orange, anthracite grey....



M.series Axess



Keypads

A new low-profile version of the M.series rugged keypad has been added to the range of products offered by EOZ – your solutions partner.

Just 8mm deep, the new M.series 'Axess' offers the same design flexibility and versatility as its larger brother, but with a lower behind-panel depth.

Electrical life 1 million actuation

- Modularity is at the heart of the design
- Colour of LED illumination.
- M.series Axess, a new low-profile keypad offering design flexibility.

B2

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power supply:	5 VDC, 240mA max
Illuminated versions:	blue and yellow as standard, red, green, and white on request
NOTE: A load resistor may need to be connected by the customer in order to power the LED's correctly.	
Contact resistance	Dome version: < 1 Ohm
Electrostatic breakdown value	10kV with a metallic front plate

MECHANICAL CHARACTERISTICS

Storage temperature	-40°C to +85°C (-30°C for illuminated)
Operating temperature	-25°C to +85°C
Protection degree	IP 65 (front face)
Shock resistance	IK 09 for standard versions with a 3mm thick front plate
Actuation force:	4.5N +/- 30%
Key travel:	0.5 ± 0.3 mm
Lifetime (cycles / keys):	1 million actuations

Environnemental resistance

- Damp heat (@+40°C) as per EN IEC 60512-6	21 days
- Saline mist as per EN IEC 60512-6	96 Hours
- Dry heat (@+85°C) as per EN IEC 60512-6	21 days
- UV resistance	56 days

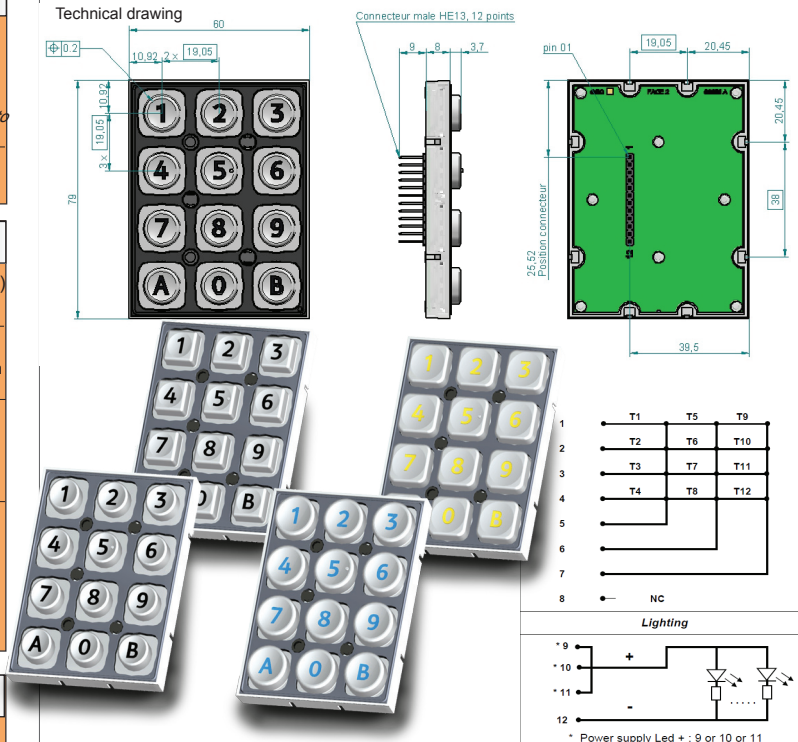
STANDARD PART NUMBERS

	Shape	Seize	Dimension keys	Part numbers
12 Key Non illuminated version with marking A and B «Function»				
• Non illuminated	Round	Small	Ø 12	AXN12001
• Non illuminated	Square	Small	11.6 x 11.6	AXN12002
• Non illuminated	Round	Big	Ø 15.6	AXN12003
• Non illuminated	Square	Big	15 x 15	AXN12004
12 Key YELLOW illuminated version with marking A and B «Function»				
• Yellow illuminated	Round	Small	Ø 12	AXN12011
• Yellow illuminated	Square	Small	11.6 x 11.6	AXN12012
• Yellow illuminated	Round	Big	Ø 15.6	AXN12013
• Yellow illuminated	Square	Big	15 x 15	AXN12014
12 Key BLEU illuminated version with marking A and B «Function»				
• Blue illuminated	Round	Small	Ø 12	AXN12021
• Blue illuminated	Square	Small	11.6 x 11.6	AXN12022
• Blue illuminated	Round	Big	Ø 15.6	AXN12023
• Blue illuminated	Square	Big	15 x 15	AXN12024

Further options and information available: www.eozonline.com

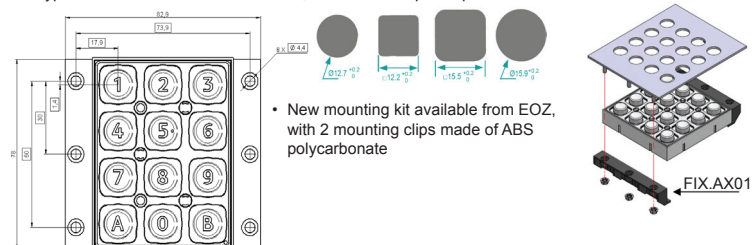
DIMENSIONS

Technical drawing



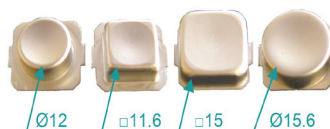
MOUNTING

The keypads can be mounted from the rear, with different options possible:



TYPE OF STANDARD KEYS

- Standard colors: Natural aluminium, red, yellow and green
- Specific colors on request: blue, orange, anthracite grey....



EOZ
SOLUTIONS & COMPONENTS



The 12 or 16 key S.series keypads are specially designed for public environment applications, such as vending machines, ticket machines, payment terminals, telephones, access control systems and industrial machinery.

- The S.series therefore has high resistance to impact and vandalism (IK10) and is also sealed to IP 67
- **KEYS:** The metal anti pull-off keys are highly resistant to shock and fire.
- **MARKING:** Custom markings or symbols in different colours are available on request

ELECTRICAL SPECIFICATIONS

Power supply:	Nominal 5 V, 5 mA Maximum voltage 24 V Minimum voltage 0.5 V Minimum current 0.1 mA
Illumination Current consumption for single LED:	20 mA at 2.1 V (yellow and green) 20 mA at 1.9 V (red) 10 mA at 3.4 V (blue)
Contact resistance	≤200 Ω
Electrostatic breakdown value	5 kV
Isolation resistance	≥1000 MΩ at 100 VDC
Electric strength as per EN IEC 60512-2	1500 Vrms, 50 Hz, 1 min.,

Storage temperature	-30 °C ... +85 °C
Operating temperature	-25°C ... +85°C
Protection degree	IP 67 as per IEC 60529, mounted
Shock resistance	IK 10 (20J)
Actuation force:	2 N ±1N
Key travel:	1.5 mm ±0.3 mm
Lifetime (cycles / keys):	4 millions actuations
Rebound time:	≤40 ms
Environmental resistance	
- Damp heat (@+40°C) as per EN IEC 60512-6	21 days
- Saline mist as per EN IEC 60512-6	96 Hours
- Dry heat (@+85°C) as per EN IEC 60512-6	10 days

12 Keys version with marking TELEPHONE		Circuit	Part numbers
• Non Illuminated / Black		Common point «PC»	S.12100.001
• Non Illuminated / Black		Matrix «XY»	S.12150.001
• Blue Illuminated		Common point «PC»	S.12100.211
• Blue Illuminated		Matrix «XY»	S.12150.211
• Yellow Illuminated		Common point «PC»	S.12100.241
• Yellow Illuminated		Matrix «XY»	S.12150.241
16 Keys version with marking HEXADECIMAL		Circuit	Part numbers
• Non Illuminated / Black		Common point «PC»	S.16300.001
• Non Illuminated / Black		Matrix «XY»	S.16350.001
• Blue Illuminated		Common point «PC»	S.16300.211
• Blue Illuminated		Matrix «XY»	S.16350.211
• Yellow Illuminated		Common point «PC»	S.16300.241
• Yellow Illuminated		Matrix «XY»	S.16350.241

Further options and information available: www.eozonline.com

Technical drawing

Technical drawing of the HPS 1000 keypad, showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 96
- Overall height: 115
- Keypad area width: 63
- Keypad area height: 82
- Mounting hole diameter: $\varnothing 6.6$
- Mounting hole center-to-center distance (horizontal): 74 ± 0.1
- Mounting hole center-to-center distance (vertical): 93 ± 0.1
- Keypad button dimensions: 11.6 (width) x 6.2 (height)
- Keypad button center-to-center distance (horizontal): 19
- Keypad button center-to-center distance (vertical): 19
- Keypad button labels: 1, 2, 3, 4, 5, 6, 7, 8, 9, *, 0, #
- Location mark for blind: R11

Side View Dimensions:

- Male pin connector: HE13
- Pin diameter: $\varnothing 6.6$
- Pin length: 9.6
- Pin thickness: 12
- Pin width: 13.5
- Pin angle: 90°

for illuminated version only

Security shunt

Pinout diagram for the 12-LED module. The diagram shows a 20-pin connector with pins numbered 1 to 20. Pins 1-9 are connected to LEDs 1-9. Pin 10 is marked with an asterisk (*). Pin 11 is marked with a hash (#). Pin 12 is labeled 'for illuminated version only'. Pin 13 is labeled 'Security short'. Pins 14-20 are not connected. A 12V LED supply is indicated on the right.

Technical drawing of the HE13 keypad. The top view shows a square keypad with a 4x4 grid of buttons. The buttons are labeled: 1, 2, 3, F; 4, 5, 6, E; 7, 8, 9, D; A, 0, B, C. The overall dimensions are 115 mm by 115 mm. The keypad is mounted on a plate with four mounting holes. The side view shows the keypad's profile with a height of 13.5 mm. The mounting plate has a thickness of 8.6 mm. The keypad is connected to a male pin connector HE13. The drawing includes dimensions for the keypad's width (82 mm), height (82 mm), and the distance between the mounting holes (93 ± 0.1 mm). The mounting holes have a diameter of Ø6.6 mm. The keypad's buttons are 19 mm wide and 19 mm high. The keypad's frame has a radius of R11. The keypad is shown in a perspective view at the bottom right.

A vertical security checklist form. On the left, there is a ruler with markings from 0 to 14 inches. The checklist items are listed to the right of the ruler, each preceded by a number. The items are: 1. 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. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825.

S.series Lite



Keypads

The S.series Lite looks like a metal keypad, but the keys and housing are crafted from polycarbonate which is known for its incredible strength and high-impact resistance. It is also protected to IP67 against water, oil and dirt ingress and the metal-look finish is scratch-resistant to ensure long-lasting good looks.

Electrical life 4 million cycles / key

- KEYS: Polycarbonate (PC), metal-look
- MARKING: Precision marking using laser etching and marking. Custom markings or symbols on request.

B4

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power supply:	Nominal 5 V, 5 mA
	Maximum voltage 24 V
	Minimum voltage 0.5 V
	Minimum current 0.1 mA
Illumination (by LED)	5V (all colours)
	blue and yellow as standard, red, green, and white on request
Contact resistance	≤200 Ω
Electrostatic breakdown value	5 kV
Isolation resistance	≥1000 MΩ at 100 VDC
Electric strength	as per EN IEC 60512-2 1500 Vrms, 50 Hz, 1 min.,

MECHANICAL CHARACTERISTICS

Storage temperature	-30 °C ... +85 °C
Operating temperature	-25 °C ... +85 °C
Protection degree	IP 67 as per IEC 60529, mounted
Shock resistance	IK 09
Actuation force:	2 N ±1N
Key travel:	1.5 mm ±0.3 mm
Lifetime (cycles / keys):	4 million actuations
Rebound time:	≤40 ms
Environmental resistance	
- Damp heat (@+40°C) as per EN IEC 60512-6	21 days
- Saline mist as per EN IEC 60512-6	96 Hours
- Dry heat (@+85°C) as per EN IEC 60512-6	10 days

STANDARD PART NUMBERS

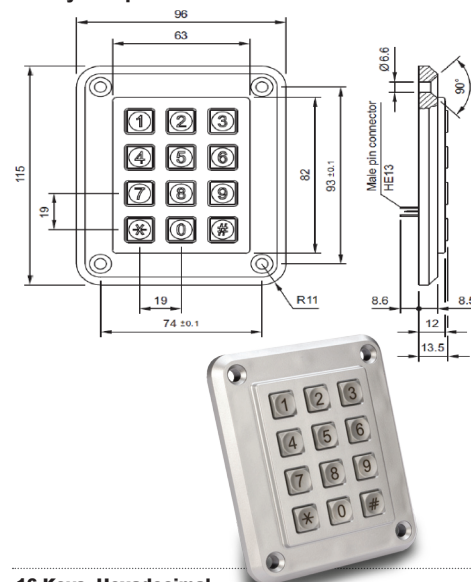
12 Keys version with marking TELEPHONE	Circuit	Part numbers
• Non Illuminated / Black	Common point «PC»	SL.12100.001
• Non Illuminated / Black	Matrix «XY»	SL.12150.001
• Blue Illuminated	Common point «PC»	SL.12100.211
• Blue Illuminated	Matrix «XY»	SL.12150.211
• Yellow Illuminated	Common point «PC»	SL.12100.241
• Yellow Illuminated	Matrix «XY»	SL.12150.241
16 Keys version with marking HEXADECIMAL	Circuit	Part numbers
• Non Illuminated / Black	Common point «PC»	SL.16300.001
• Non Illuminated / Black	Matrix «XY»	SL.16350.001
• Blue Illuminated	Common point «PC»	SL.16300.211
• Blue Illuminated	Matrix «XY»	SL.16350.211
• Yellow Illuminated	Common point «PC»	SL.16300.241
• Yellow Illuminated	Matrix «XY»	SL.16350.241

Further options and information available: www.eozonline.com

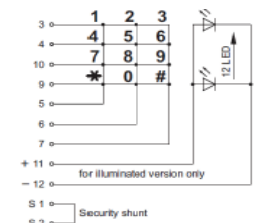
DIMENSIONS

Technical drawing

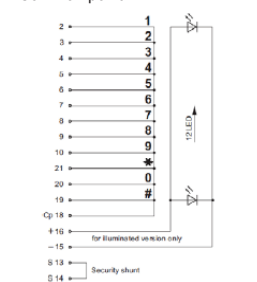
12 Keys telephone



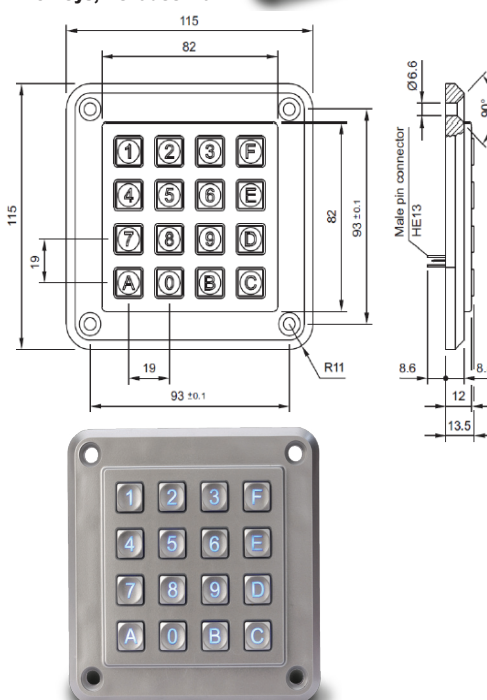
Matrix:



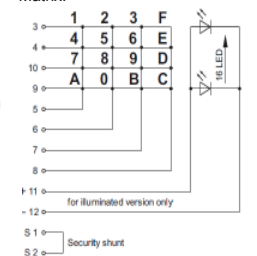
Common point:



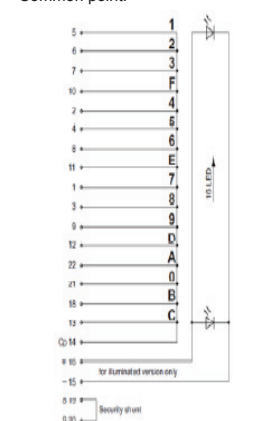
16 Keys, Hexadecimal



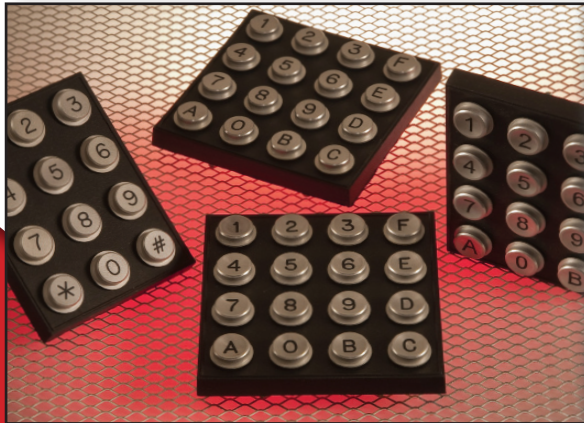
Matrix:



Common point:



A.series



Keypads

The low profile 12 or 16 key A.series keypads are specially designed for public environment applications, such as vending machines, ticket machines, payment terminals, telephones, access control systems and industrial machinery.

Electrical life 1 Million cycles / key

- The aluminum keys are available with either flat or concave profile
- Anti-pull-of and resistant to shock and fire
- Full IP67 front face sealing



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power supply:	Nominal 24 V, 50 mA Maximum voltage 50 V Minimum voltage 5 V Minimum current 1 mA
Contact resistance	$\leq 1 \Omega$
Electrostatic breakdown value	5 kV
Isolation resistance	$\geq 1000 \text{ M}\Omega$ at 100 VDC
Electric strength as per EN IEC 60512-2	1500 Vrms, 50 Hz, 1 min.,

MECHANICAL CHARACTERISTICS

Storage temperature	-40°C to +85°C (-30°C for illuminated)
Operating temperature	-25°C to +85°C
Protection degree	IP 67 as per IEC 60529
Shock resistance	IK 09
Actuation force:	4.3 N $\pm 30\%$
Key travel:	1 mm ± 0.2 mm
Lifetime (cycles / keys):	1 million actuations
Rebound time:	≤ 1 ms
Environmental resistance	
- Damp heat (@+40°C) as per EN IEC 60512-6	21 days
- Saline mist as per EN IEC 60512-6	48 Hours
- Dry heat (@+85°C) as per EN IEC 60512-6	10 days

STANDARD PART NUMBERS

	Aluminum natural key cap	Dimension keys	Part numbers
12 Key version with marking FUNCTION «A and B»			
• Matrix « XY »	Concave	$\varnothing 12$	AAN12001
• Matrix « XY »	Flat	$\varnothing 11.3$	AAN12011
• Common point « PC »	Concave	$\varnothing 12$	AAN12051
• Common point « PC »	Flat	$\varnothing 11.3$	AAN12061
12 Key version with marking TELEPHONE			
• Matrix « XY »	Concave	$\varnothing 12$	AAN12005
• Matrix « XY »	Flat	$\varnothing 11.3$	AAN12015
• Common point « PC »	Concave	$\varnothing 12$	AAN12055
• Common point « PC »	Flat	$\varnothing 11.3$	AAN12065
16 Key version with marking HEXADECIMAL			
• Matrix « XY »	Concave	$\varnothing 12$	AAN16001
• Matrix « XY »	Flat	$\varnothing 11.3$	AAN16011

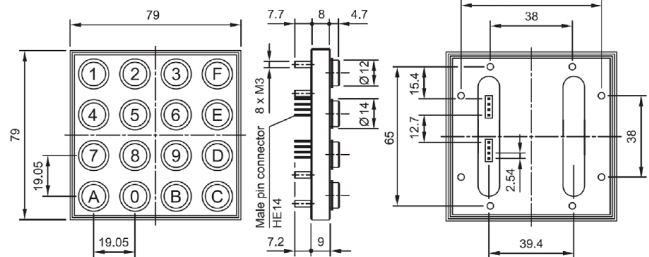
Further options and information available: www.eozonline.com



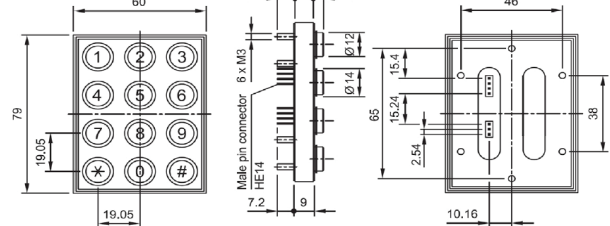
DIMENSIONS

Technical drawing

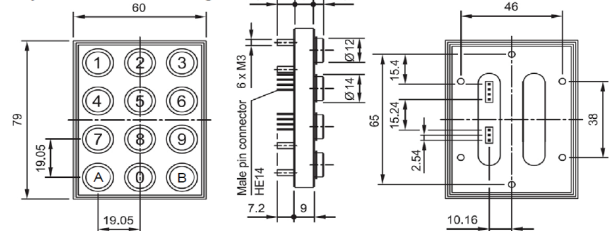
16 keys hexadecimal marking



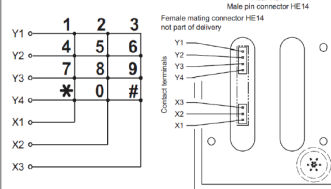
12 keys phone marking



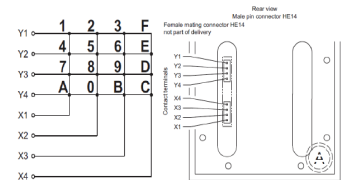
12 keys function marking



12 keys, Matrix point,

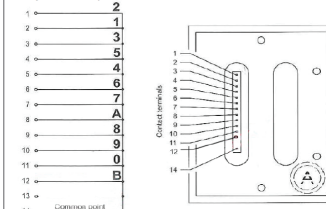


16 keys, Matrix point,

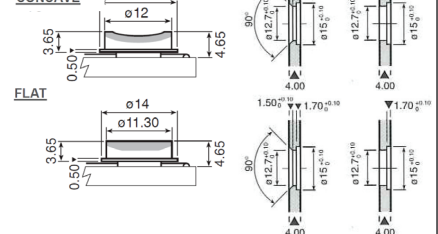


MOUNTING

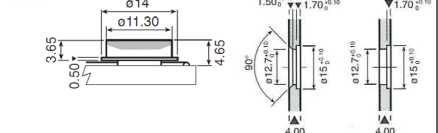
12 keys, common point



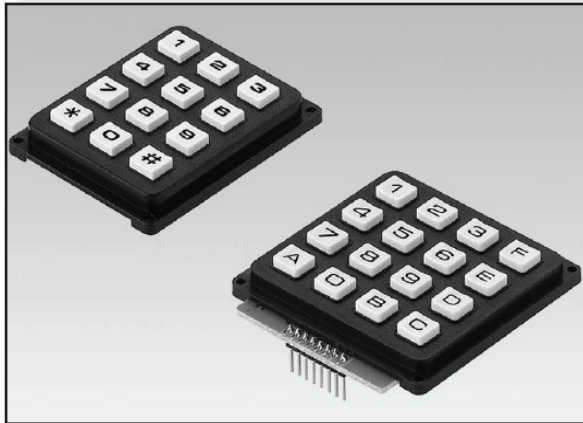
CONCAVE



FLAT



ECO.series



Keypads

The ECO keypads are suited to all indoor applications including data-entry systems, remote controls, telephone, point of sales terminals or alarm systems.

The ECO range of low-cost, flush-mount keypads are rugged, economical devices available in 12-key telephone style and 16-key hexadecimal layouts.

Electrical life 1 Million cycles / key

B6

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power supply:	Nominal 24V, 20 mA Maximum voltage 24 V Minimum voltage 500 mV Minimum current 10 mA
Contact resistance	≤200 Ω
Electrostatic breakdown value	5 kV
Isolation resistance	≥100 0 MΩ at 100 VDC
Switch rating	0.5 W

MECHANICAL CHARACTERISTICS

Storage temperature	-40°C ... +65°C
Operating temperature	-20°C ... +60°C
Protection degree	IP 40
Shock resistance	IK 09
Actuation force:	1.2N ±35%
Key travel:	1.4 MM ±0.1N
Lifetime (cycles / keys):	1 million actuations
Rebound time:	≤2 ms

STANDARD PART NUMBERS

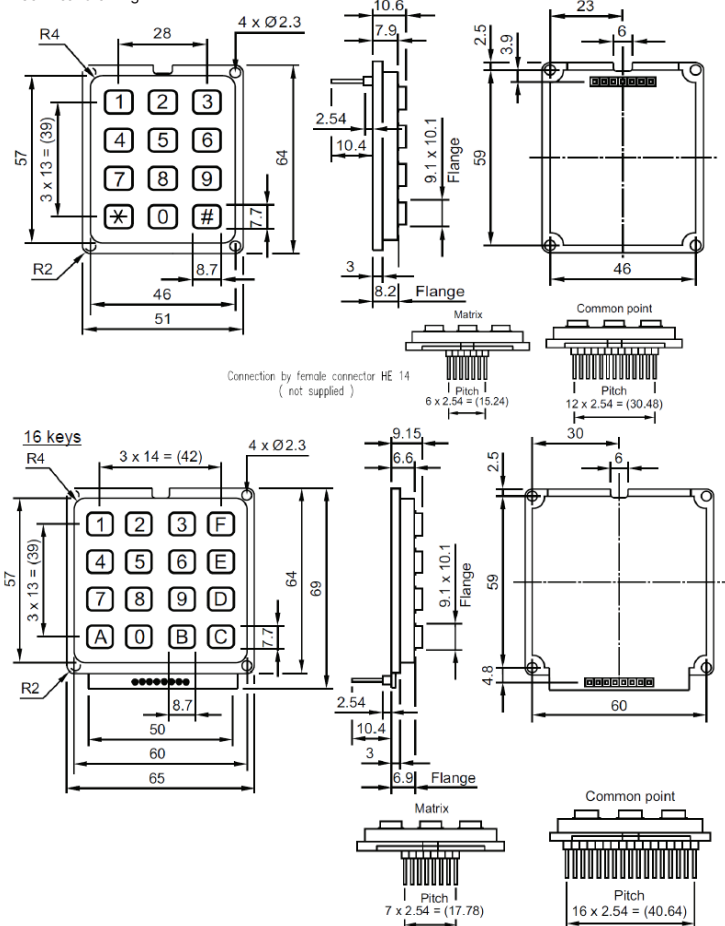
Packaging of 10 pcs		
12 Key version with marking TELEPHONE	Key cap	Part numbers
• Common point « PC »	plastic white	ECO.12100.06
• Matrix « XY »	plastic white	ECO.12150.06
16 Key version with marking HEXADECIMAL		
• Common point « PC »	plastic white	ECO.16200.06
• Matrix « XY »	plastic white	ECO.16250.06

Further options and information available: www.eozonline.com



DIMENSIONS

Technical drawing



CONNECTION for 16 keys

	X1	X2	X3	X4
Y1	1	2	3	F
Y2	4	5	6	E
Y3	7	8	9	D
Y4	A	0	B	C

Matrix XY

CONTACTS

Y4	Y3	Y2	Y1	X4	X3	X2	X1
----	----	----	----	----	----	----	----

Common point

CONTACTS

PC	C	B	A	D	9	8	7	E	6	5	4	F	3	2	1
----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

CONNECTION for 12 keys

	X1	X2	X3
Y1	1	2	3
Y2	4	5	6
Y3	7	8	9
Y4	*	0	#

Matrix XY

CONTACTS

X3	X2	X1	Y4	Y3	Y2	Y1
----	----	----	----	----	----	----

Common point

CONTACTS

3	6	9	#	2	5	8	0	1	4	7	PC
---	---	---	---	---	---	---	---	---	---	---	----

PC = Common point

W.series



Keypads

The EOZ W.series range is specially designed for hostile environments.

Built from stainless steel and chrome plated zinc alloy (zamak), the W04.series therefore has a high resistance to impact and vandalism and is also sealed to IP67 from the front

Electrical life 4 Millions cycles / key

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power supply:	Nominal 5 V, 5 mA Maximum voltage 24 V Minimum voltage 0.5 V Minimum current 0.1 mA
Illumination	
Current consumption for single LED:	20 mA at 2.1 V (yellow and green) 20 mA at 1.9 V (red) 10 mA at 3.4 V (blue)
Contact resistance	≤200 Ω
Electrostatic breakdown value	5 kV
Isolation resistance	≥1000 MΩ at 100 VDC
Electric strength as per EN IEC 60512-2	1500 Vrms, 50 Hz, 1 min.,

MECHANICAL CHARACTERISTICS

Storage temperature	-30 °C ... +85 °C
Operating temperature	-25°C ... +85°C
Protection degree as per IEC 60529	IP 67
Shock resistance	IK 10 (20J)
Actuation force:	2 N ±1N
Key travel:	1.5 mm ±0.3 mm
Lifetime (cycles / keys):	4 million actuations
Rebound time:	≤40 ms

Environmental resistance

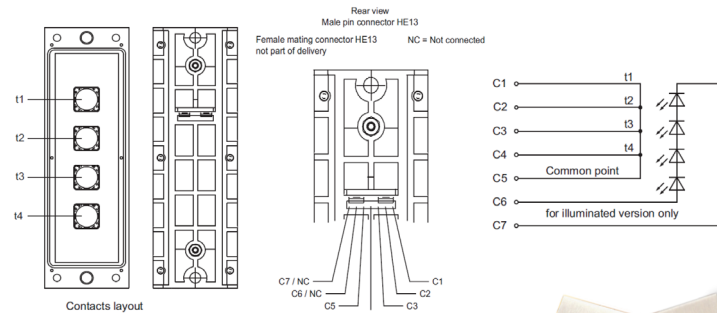
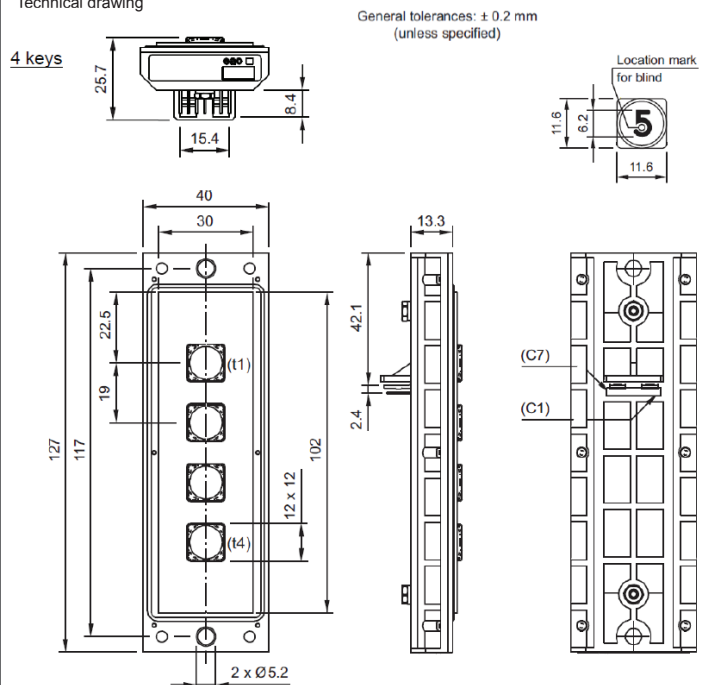
- Damp heat (@+40°C) as per EN IEC 60512-6	21 days
- Saline mist as per EN IEC 60512-6	96 Hours
- Dry heat (@+85°C) as per EN IEC 60512-6	10 days

STANDARD PART NUMBERS

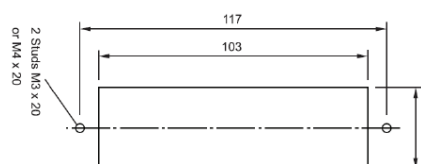
4 Keys version Common point «PC»	Marking	Numbers
• Yellow Illuminated	A, B, C, D	W.0400X.016
• Non illuminated	Arrow	W.0400X.038
• Non illuminated	Without	W.0400X.P01

DIMENSIONS

Technical drawing



MOUNTING



Further options and information available: www.eozonline.com

KB.series



Keyboards

Our Stainless Steel KB.series is designed to operate in various environments and can be used in many applications such as kiosks, industrial environments or other public areas.

Its can be supplied with an integrated numeric keypad, an optical trackball or a touchpad.

Anti-pull-off keys offering more than 8M operations

- Trackball: Brushed stainless steel 304 L
- Resistance to shock and vandalism up to IK09 (10J)
- Full IP67 front face sealing

Microsoft Certified USB

B8

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Interface:	Microsoft Certified USB chipset
Current rating:	20mA
Safety:	EN 60950 and CE compliant

MECHANICAL CHARACTERISTICS

Compliant with:	Apple MAC, Windows XP, 7 et 8
Key travel:	2mm
Contact materials:	Carbon/gold
Lifetime (cycles/key):	8 million actuations per key
Impact resistance:	IK09 (10J)
Shock resistance:	3 axis 150m/S ² -11ms, IEC60512-4
Vibration resistance:	5 Hz – 200 Hz, IEC 60512-4

STANDARD PART NUMBERS

ORIGINAL Keys version, industrial / kiosk keyboard	Face panel dim.	Mounting	Pads	Part numbers for:	
				QWERTY	AZERTY
• Keyboard 5 lignes, IP65	392x110 mm	Front Mounting	Touchpad	KBP01001	KBP11001
• Keyboard 5 lignes, IP65	330x100 mm	Rear Mounting	Touchpad	KBP01003	KBP11003
• Keyboard 6 lignes, IP65	390x165 mm	Front Mounting	Touchpad	KBP01050	KBP11050
• Keyboard 5 lignes, IP65	392x110 mm	Rear Mounting	Laser Trackball Ø38mm	KBB01004	KBB11004
• Keyboard 5 lignes, IP65	400x124 mm	Front Mounting	Laser Trackball Ø38mm	KBB01020	KBB11020
AWARD Keys version, industrial / kiosk keyboard					
• Keyboard 5 lignes, IP65	370x110 mm	Rear Mounting	Touchpad	KBP02002	KBP12002
• Keyboard 5 lignes, IP65	370x100 mm	Rear Mounting	Laser Trackball Ø38mm	KBP02005	KBP12005
• Keyboard 5 lignes, IP65	378x118 mm	Front Mounting	Laser Trackball Ø38mm	KBP02021	KBP12021
CROWN Keys version, industrial / kiosk keyboard					
• Keyboard 6 lignes, IP65	392x135 mm	Rear Mounting	Laser Trackball Ø38mm	KBP03051	KBP13051

MOUNTING

Front Mounting



Rear Mounting

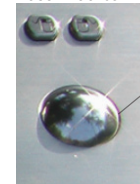


TYPE OF MOUSE

Touchpad



Laser Trackball



Ø38 mm

TYPE OF KEYS

ORIGINAL



AWARD

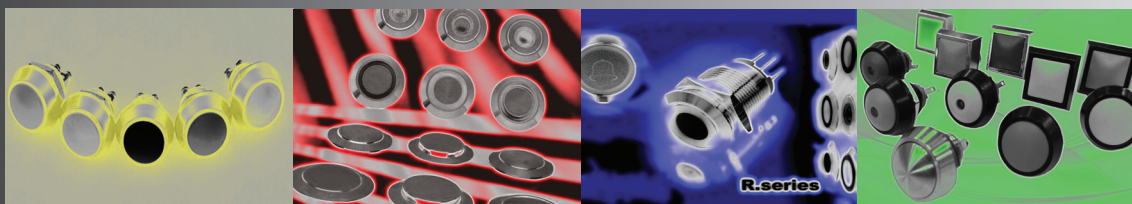


CROWN



MEMO

Handwriting practice area with 20 horizontal dotted lines.



PUSHBUTTONS

R.series Ø12 mm

Round steel, Round and Square plastic actuator	30	C1
Illuminated round plastic actuator	31	C2

R.series Ø16 mm

Slow-action contact	32	C3
Snap-action contact	33	C4
Dual color, Snap-action contact	34	C5

R.series Ø19 mm

Slow-action contact	35	C6
Fast-action contact	36	C7
Single and Dual-colors, Snap-action contact	37	C8

R.series Anti-vandal pushbutton Ø12 mm

Round steel, Round and Square plastic actuator



ELECTRICAL SPECIFICATIONS

Switching rate max	1th:2A Ui:36VDC
Electrical life	50 000 cycles
Contact Resistance	≤50mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Screw Terminals, torque max 0.2 Nm Pin Terminal(2×0.5mm)

MECHANICAL CHARACTERISTICS

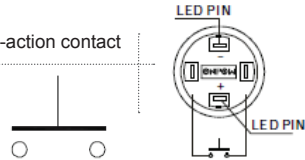
The Front Shape	Domed	Operation travel	About 2.5mm
Contact function	Momentary	IK Degree	IK08
Operating Temp	-20°C / +55°C	IP Degree	IP65
Mechanical lifetime	1,000,000 cycles	Contact arrangement	1NO
Panel Thickness	1...6mm	Plastic head color	R G Y O B W N
Torque	5...14Nm	Color LED	-
Actuating force	About 5N	Lifetime LED	-

Contact arrangement
Switching Operation

1NO

Slow-action contact

Double-break slow-motion contact



ROUND STEEL STANDARD PART NUMBERS

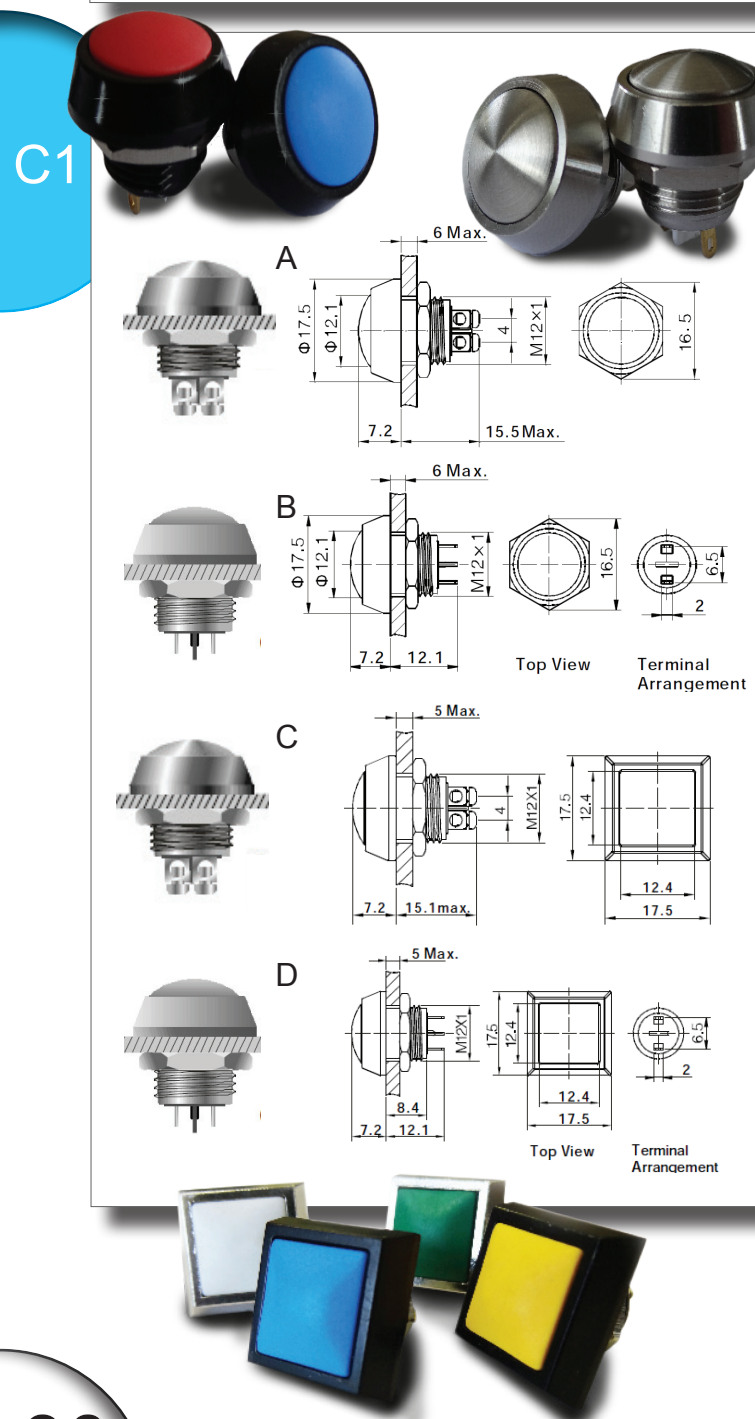
Terminal Type	Colors of actuator	Material	Numbers	Draw
• Screw Terminals (ST)	Steel	Stainless steel (S)	R12DRSSTAG	A
• Screw Terminals (ST)	Steel	Nickel plated brass (N)	R12DRNSTAG	A
• Pin Terminal(2×0.5mm) (SP)	Steel	Stainless steel (S)	R12DRSSPAG	B
• Pin Terminal(2×0.5mm) (SP)	Steel	Nickel plated brass (N)	R12DRNSPAG	B

ROUND PLASTIC ACTUATOR STANDARD PART NUMBERS

Terminal Type	Colors of actuator	Material	Numbers	Draw
• Screw Terminals (ST)	Red (R)	Black Zn-Al Alloy	R12DRASTAGR	A
• Screw Terminals (ST)	Green (G)	Black Zn-Al Alloy	R12DRASTAGG	A
• Screw Terminals (ST)	Yellow (Y)	Black Zn-Al Alloy	R12DRASTAGY	A
• Screw Terminals (ST)	Orange (O)	Black Zn-Al Alloy	R12DRASTAGO	A
• Screw Terminals (ST)	Blue (B)	Black Zn-Al Alloy	R12DRASTAGB	A
• Screw Terminals (ST)	White (W)	Black Zn-Al Alloy	R12DRASTAGW	A
• Screw Terminals (ST)	Black (N)	Black Zn-Al Alloy	R12DRASTAGN	A
• Pin Terminal(2×0.5mm) (SP)	Red (R)	Black Zn-Al Alloy	R12DRASPAGR	B
• Pin Terminal(2×0.5mm) (SP)	Green (G)	Black Zn-Al Alloy	R12DRASPAGG	B
• Pin Terminal(2×0.5mm) (SP)	Yellow (Y)	Black Zn-Al Alloy	R12DRASPAGY	B
• Pin Terminal(2×0.5mm) (SP)	Orange (O)	Black Zn-Al Alloy	R12DRASPAGO	B
• Pin Terminal(2×0.5mm) (SP)	Blue (B)	Black Zn-Al Alloy	R12DRASPAGB	B
• Pin Terminal(2×0.5mm) (SP)	White (W)	Black Zn-Al Alloy	R12DRASPAGW	B
• Pin Terminal(2×0.5mm) (SP)	Black (N)	Black Zn-Al Alloy	R12DRASPAGN	B

SQUARE PLASTIC ACTUATOR STANDARD PART NUMBERS

Terminal Type	Colors of actuator	Material	Numbers	Draw
• Screw Terminals (ST)	Red (R)	Black Zn-Al Alloy	R12DSASTAGR	C
• Screw Terminals (ST)	Green (G)	Black Zn-Al Alloy	R12DSASTAGG	C
• Screw Terminals (ST)	Yellow (Y)	Black Zn-Al Alloy	R12DSASTAGY	C
• Screw Terminals (ST)	Orange (O)	Black Zn-Al Alloy	R12DSASTAGO	C
• Screw Terminals (ST)	Blue (B)	Black Zn-Al Alloy	R12DSASTAGB	C
• Screw Terminals (ST)	White (W)	Black Zn-Al Alloy	R12DSASTAGW	C
• Screw Terminals (ST)	Black (N)	Black Zn-Al Alloy	R12DSASTAGN	C
• Pin Terminal(2×0.5mm) (SP)	Red (R)	Black Zn-Al Alloy	R12DSASPAGR	D
• Pin Terminal(2×0.5mm) (SP)	Green (G)	Black Zn-Al Alloy	R12DSASPAGG	D
• Pin Terminal(2×0.5mm) (SP)	Yellow (Y)	Black Zn-Al Alloy	R12DSASPAGY	D
• Pin Terminal(2×0.5mm) (SP)	Orange (O)	Black Zn-Al Alloy	R12DSASPAGO	D
• Pin Terminal(2×0.5mm) (SP)	Blue (B)	Black Zn-Al Alloy	R12DSASPAGB	D
• Pin Terminal(2×0.5mm) (SP)	White (W)	Black Zn-Al Alloy	R12DSASPAGW	D
• Pin Terminal(2×0.5mm) (SP)	Black (N)	Black Zn-Al Alloy	R12DSASPAGN	D
• Screw Terminals (ST)	Red (R)	Silvery white Zn-Al alloy	R12DSCSTAGR	C
• Screw Terminals (ST)	Green (G)	Silvery white Zn-Al alloy	R12DSCSTAGG	C
• Screw Terminals (ST)	Yellow (Y)	Silvery white Zn-Al alloy	R12DSCSTAGY	C
• Screw Terminals (ST)	Orange (O)	Silvery white Zn-Al alloy	R12DSCSTAGO	C
• Screw Terminals (ST)	Blue (B)	Silvery white Zn-Al alloy	R12DSCSTAGB	C
• Screw Terminals (ST)	White (W)	Silvery white Zn-Al alloy	R12DSCSTAGW	C
• Screw Terminals (ST)	Black (N)	Silvery white Zn-Al alloy	R12DSCSTAGN	C
• Pin Terminal(2×0.5mm) (SP)	Red (R)	Silvery white Zn-Al alloy	R12DSCSPAGR	D
• Pin Terminal(2×0.5mm) (SP)	Green (G)	Silvery white Zn-Al alloy	R12DSCSPAGG	D
• Pin Terminal(2×0.5mm) (SP)	Yellow (Y)	Silvery white Zn-Al alloy	R12DSCSPAGY	D
• Pin Terminal(2×0.5mm) (SP)	Orange (O)	Silvery white Zn-Al alloy	R12DSCSPAGO	D
• Pin Terminal(2×0.5mm) (SP)	Blue (B)	Silvery white Zn-Al alloy	R12DSCSPAGB	D
• Pin Terminal(2×0.5mm) (SP)	White (W)	Silvery white Zn-Al alloy	R12DSCSPAGW	D
• Pin Terminal(2×0.5mm) (SP)	Black (N)	Silvery white Zn-Al alloy	R12DSCSPAGN	D



R.series Anti-vandal pushbutton Ø12 mm

Illuminated round plastic actuator



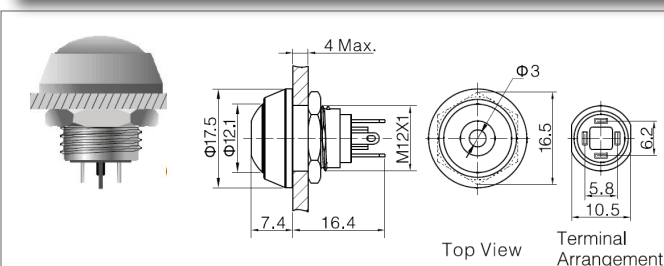
ELECTRICAL SPECIFICATIONS

Switching rate max	Ith:400mA Ui:36VDC
Electrical life	50 000 cycles
Contact Resistance	≤50mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Pin Terminal(2×0.5mm)

LED color	R Y O G B W
LED rated voltage	AC/DC1.7V AC/DC 2.8V
LED rated amper	20mA 20mA
Contact arrangement	1NO
Switching Operation	Slow-action contact
Double-break slow-motion contact	
Using AC/DC led lamp, the terminal will not have any difference between anode and cathode	

Resistance configuration table

Current - Limiting	Operating Voltage(U)	6V	12V
	Colors R Y O G B W	210Ω, 1/4W	510Ω, 1/2W
Formul	Operating Voltage(U)	24V	36V
	Colors R Y O G B W	1.2kΩ, 3/4W	2.2kΩ, 1W
		1.2kΩ, 3/4W	2.2kΩ, 1W



MECHANICAL CHARACTERISTICS

The Front Shape	Domed Round	Operation travel	About 1.5mm
Contact function	Momentary	IK Degree	IK08
Operating Temp	-20°C / +55°C	IP Degree	IP65
Mechanical lifetime	1,000,000 cycles	Contact arrangement	1NO
Panel Thickness	1...4mm	Plastic head color	R G Y O B W
Torque	5...14Nm	Color LED	R G Y O B W
Actuating force	About 4N	Lifetime LED	40000 hours

ILLUMINATED ROUND PLASTIC ACTUATOR STANDARD PART NUMBERS

Terminal Type	Colors of actuator	Colors of LED	Numbers
Pushbutton nominal voltage led 6 (v)			
• Pin Terminal(2×0.5mm) (SP)	Red (R) R	Red (R) R	R12DRASPAGDRR6
• Pin Terminal(2×0.5mm) (SP)	Green (G) G	Green (G) G	R12DRASPAGDGG6
• Pin Terminal(2×0.5mm) (SP)	Yellow (Y) Y	Yellow (Y) Y	R12DRASPAGDYY6
• Pin Terminal(2×0.5mm) (SP)	Orange (O) O	Orange (O) O	R12DRASPAGDOO6
• Pin Terminal(2×0.5mm) (SP)	Blue (B) B	Blue (B) B	R12DRASPAGDBB6
• Pin Terminal(2×0.5mm) (SP)	White (W) W	White (W) W	R12DRASPAGDWW6
Pushbutton nominal voltage led 12 (v)			
• Pin Terminal(2×0.5mm) (SP)	Red (R) R	Red (R) R	R12DRASPAGDRR12
• Pin Terminal(2×0.5mm) (SP)	Green (G) G	Green (G) G	R12DRASPAGDGG12
• Pin Terminal(2×0.5mm) (SP)	Yellow (Y) Y	Yellow (Y) Y	R12DRASPAGDYY12
• Pin Terminal(2×0.5mm) (SP)	Orange (O) O	Orange (O) O	R12DRASPAGDOO12
• Pin Terminal(2×0.5mm) (SP)	Blue (B) B	Blue (B) B	R12DRASPAGDBB12
• Pin Terminal(2×0.5mm) (SP)	White (W) W	White (W) W	R12DRASPAGDWW12
Pushbutton nominal voltage led 24 (v)			
• Pin Terminal(2×0.5mm) (SP)	Red (R) R	Red (R) R	R12DRASPAGDRR24
• Pin Terminal(2×0.5mm) (SP)	Green (G) G	Green (G) G	R12DRASPAGDGG24
• Pin Terminal(2×0.5mm) (SP)	Yellow (Y) Y	Yellow (Y) Y	R12DRASPAGDYY24
• Pin Terminal(2×0.5mm) (SP)	Orange (O) O	Orange (O) O	R12DRASPAGDOO24
• Pin Terminal(2×0.5mm) (SP)	Blue (B) B	Blue (B) B	R12DRASPAGDBB24
• Pin Terminal(2×0.5mm) (SP)	White (W) W	White (W) W	R12DRASPAGDWW24
Pushbutton nominal voltage led 36 (v)			
• Pin Terminal(2×0.5mm) (SP)	Red (R) R	Red (R) R	R12DRASPAGDRR36
• Pin Terminal(2×0.5mm) (SP)	Green (G) G	Green (G) G	R12DRASPAGDGG36
• Pin Terminal(2×0.5mm) (SP)	Yellow (Y) Y	Yellow (Y) Y	R12DRASPAGDYY36
• Pin Terminal(2×0.5mm) (SP)	Orange (O) O	Orange (O) O	R12DRASPAGDOO36
• Pin Terminal(2×0.5mm) (SP)	Blue (B) B	Blue (B) B	R12DRASPAGDBB36
• Pin Terminal(2×0.5mm) (SP)	White (W) W	White (W) W	R12DRASPAGDWW36

Information «Description of the various types of contact»

SLOW ACTION «Double-break slow-action contact»

Strong Tactile sensation «from 4N to 5N according to the reference». The contact depends on the strength and the speed of the actuation.

Note : Terminal = 2 Pins or 2 screws
Standard contact = 1NO (1NC upon request)
Actuation = Momentary

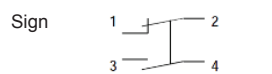
Sign



FAST ACTION «Double-break and fast-action contact»

Fast tactile sensation «4N», The contact is made by the reversal of a membrane helped by a spring.

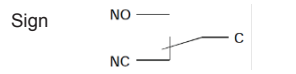
Note : Terminal = 4 Pins or 4 screws
Standard contact = 1NO / 1NC
Actuation = Momentary or Maintained



SNAP ACTION «Single-break and snap-action contact»

Smooth tactile sensation «from 2.5N to 4N». The contact is made by an abrupt rocking contact .

Note : Terminal = 3 Pins
Standard contact = 1NO / 1NC (2NO / 2NC upon request)
Actuation = Momentary or Maintained



R.series Anti-vandal pushbutton Ø16 mm

Slow-action contact



ELECTRICAL SPECIFICATIONS

Switching rate max:	1th:2A Ui:36VDC
Electrical life	200 000 cycles
Contact Resistance	≤50mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Screw Terminals, torque max 0.2 Nm
	Pin Terminal(2×0.5mm)

LED color



LED rated voltage AC/DC

1.7 V

2.8 V

LED rated amper

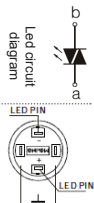
About 20mA

Contact arrangement: 1NO

Switching Operation Slow-action contact

Double-break slow-motion contact

Using AC/DC led lamp, the terminal will not have any difference between anode and cathode



MECHANICAL CHARACTERISTICS

The Front Shape	Domed / Flush /	Operation travel	About 1.5mm
Contact function:	Momentary	IK Degree	IK08
Operating Temp	-20°C / +55°C	IP Degree	IP65
Mechanical lifetime	1,000,000 cycles	Contact arrangement	1NO (1NC)
Panel Thickness	1...6mm	head color	-
Torque	5...14Nm	Color LED	R G B Y O W
Actuating force	About 4N	Lifetime LED	40 000 hours

NON-ILLUMINATED STANDARD PART NUMBERS

Pushbutton screw terminals (ST)	Front shape	Material	Numbers	Draw
• Screw Terminals (ST)	DOMED (DF)	Stainless steel (S)	R16DFSSTAG	A
• Screw Terminals (ST)	DOMED (DF)	Nickel plated brass (N)	R16DFNSTAG	A
• Screw Terminals (ST)	DOMED (DF)	Brushed stainless steel (SB)	R16DFSBSTAG	A
• Screw Terminals (ST)	DOMED (DF)	Gold plated brass (G)	R16DFGSTAG	A
• Screw Terminals (ST)	DOMED (DF)	Al alloy black (A)	R16DFASTAG	A
• Screw Terminals (ST)	FLUSH (FF)	Stainless steel (S)	R16FFSSTAG	B
• Screw Terminals (ST)	FLUSH (FF)	Nickel plated brass (N)	R16FFNSTAG	B
• Screw Terminals (ST)	FLUSH (FF)	Brushed stainless steel (SB)	R16FFSBSTAG	B
• Screw Terminals (ST)	FLUSH (FF)	Gold plated brass (G)	R16FFGSTAG	B
• Screw Terminals (ST)	FLUSH (FF)	Al alloy black (A)	R16FFASTAG	B
• Screw Terminals (ST)	RAISED (FR)	Stainless steel (S)	R16FRSSTAG	C
• Screw Terminals (ST)	RAISED (FR)	Nickel plated brass (N)	R16FRNSTAG	C
• Screw Terminals (ST)	RAISED (FR)	Brushed stainless steel (SB)	R16FRSBSTAG	C
• Screw Terminals (ST)	RAISED (FR)	Gold plated brass (G)	R16FRGSTAG	C
• Screw Terminals (ST)	RAISED (FR)	Al alloy black (A)	R16FRASTAG	C
Pushbutton pin terminal(2×0.5mm) (SP)				
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Stainless steel (S)	R16DFSPPAG	D
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Nickel plated brass (N)	R16DFNSPPAG	D
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Brushed stainless steel (SB)	R16DFSBSPPAG	D
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Gold plated brass (G)	R16DFGSPAG	D
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Al alloy black (A)	R16DFASPPAG	D
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Stainless steel (S)	R16FFSPPAG	E
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Nickel plated brass (N)	R16FFNSPPAG	E
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Brushed stainless steel (SB)	R16FFSBSPPAG	E
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Gold plated brass (G)	R16FFGSPAG	E
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Al alloy black (A)	R16FFASPPAG	E
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Stainless steel (S)	R16FRSPPAG	F
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Nickel plated brass (N)	R16FRNSPPAG	F
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Brushed stainless steel (SB)	R16FRSBSPPAG	F
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Gold plated brass (G)	R16FRGSPAG	F
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Al alloy black (A)	R16FRASPPAG	F

DOT ILLUMINATED STANDARD PART NUMBERS

Pushbutton 6V, pin terminal , flush (FF) Front shape	Material	Colors of the led	Numbers	Draw
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Red (R)	R16FFSSPAGDR▲	G
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Green (G)	R16FFSSPAGDG▲	G
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Yellow (Y)	R16FFSSPAGDY▲	G
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Blue (B)	R16FFSSPAGDB▲	G
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Orange (O)	R16FFSSPAGDO▲	G
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	White (W)	R16FFSSPAGDW▲	G

Replace the symbol ▲ with the desired nominal voltage led below: 6v / 12v / 24v / 36v «others upon request»

RING ILLUMINATED STANDARD PART NUMBERS

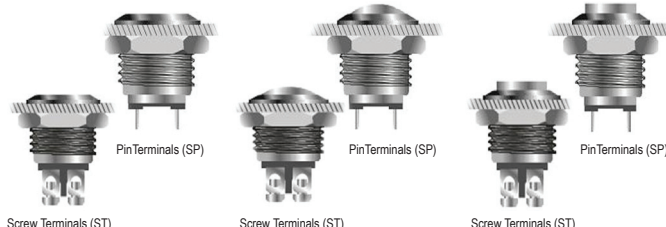
Pushbutton 6V, pin terminal , flush (FF) front shape	Material	Colors of the led	Numbers	Draw
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Red (R)	R16FFSSPAGR▲	H
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Green (G)	R16FFSSPAGRG▲	H
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Yellow (Y)	R16FFSSPAGRY▲	H
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Blue (B)	R16FFSSPAGRB▲	H
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	Orange (O)	R16FFSSPAGRO▲	H
• Pin Terminal(2×0.5mm) (SP)	Stainless steel (S)	White (W)	R16FFSSPAGRW▲	H

Replace the symbol ▲ with the desired nominal voltage led below: 6v / 12v / 24v / 36v «others upon request»

FLUSH (FF)

DOMED (DF)

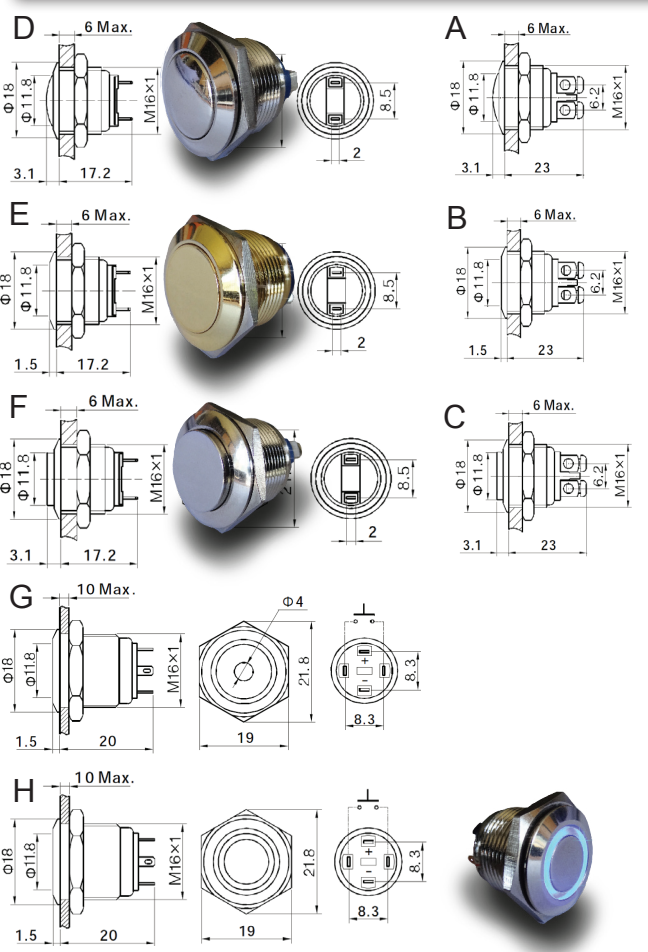
RAISED (FR)



Screw Terminals (ST)

Screw Terminals (ST)

Screw Terminals (ST)

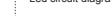


Further options and information available: www.eozonline.com

Snap-action contact

ELECTRICAL SPECIFICATIONS

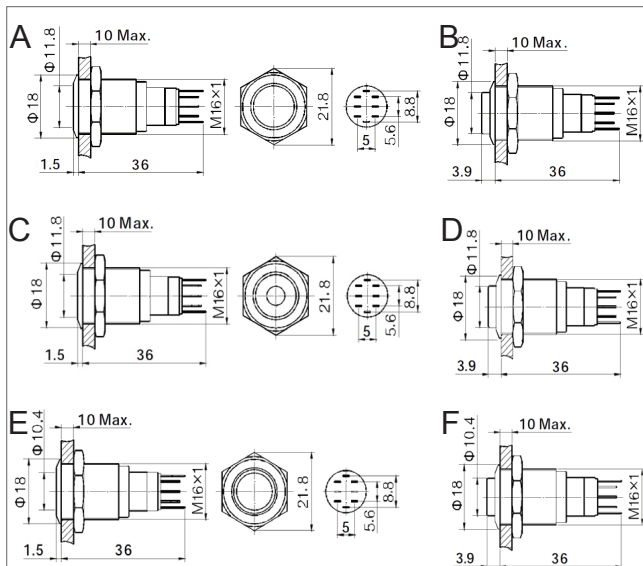
Switching rate max	Ith:3A Ui:250VAC
Electrical life	50 000 cycles
Contact Resistance	≤50mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Pin Terminal(1.8×0.4mm)

LED color	  	colors of the led unipon reques	  	LED circuit diagram
LED rated voltage AC/DC	6V 12V 24V 36V		110V 220V	
LED rated amper	15mA		5mA	
Contact arrangement	1NO/1NC «Available in 2NO/2NC»			
Switching Operation	Snap-action contact			
				
				
Single-break and snap-action contact Using AC/DC led lamp, the terminal will not have any difference between anode and cathode				

NON-ILLUMINATED STANDARD PART NUMBERS

	Front shape	Material	Numbers	Draw
Pushbutton pin terminal, <i>MOMENTARY ACTION (G), contact 1NO/1NF</i>				
• Pin Terminal (1.8x0.4mm) (SP)	FLUSH (FF)	Stainless steel (S)	R16FFSSP1G	A
• Pin Terminal (1.8x0.4mm) (SP)	FLUSH (FF)	Nickel plated brass (N)	R16FFNSP1G	A
• Pin Terminal (1.8x0.4mm) (SP)	RAISED (FR)	Stainless steel (S)	R16FRSSP1G	B
• Pin Terminal (1.8x0.4mm) (SP)	RAISED (FR)	Nickel plated brass (N)	R16FRNSP1G	B
Pushbutton pin terminal, <i>MAINTAINED ACTION (Z), contact 1NO/1NF</i>				
• Pin Terminal (1.8x0.4mm) (SP)	FLUSH (FF)	Stainless steel (S)	R16FFSSP1Z	A
• Pin Terminal (1.8x0.4mm) (SP)	FLUSH (FF)	Nickel plated brass (N)	R16FFNSP1Z	A
• Pin Terminal (1.8x0.4mm) (SP)	RAISED (FR)	Stainless steel (S)	R16FRSSP1Z	B
• Pin Terminal (1.8x0.4mm) (SP)	RAISED (FR)	Nickel plated brass (N)	R16FRNSP1Z	B

Nota: 2 NC / 2NO on request



Further options and information available: www.eozonline.com



MECHANICAL CHARACTERISTICS

The Front Shape	Flush / Raised	Operation travel	About 2.8 mm
Contact function	Momentary / Maintained	IK Degree	IK09
Operating Temp	-20°C / +55°C	IP Degree	IP67
Mechanical lifetime	200,000 cycles	Contact arrangement	1NO/1NC or 2NO/2NC
Panel Thickness	1 ~ 10 mm	head color	Local colour
Torque	5 ~ 14 Nm	Color LED	
Actuating force	2.5 ~ 4 N	Lifetime LED	40 000 hours

DOT ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal MOMENTARY ACTION (G)						
Front shape		Colors of LED	Material	Numbers		
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 R	Stainless steel (S)	R16FFSSP1GDR	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 R	Nickel plated brass(N)	R16FFNSP1GDR	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 R	Stainless steel (S)	R16FRSSP1GDR	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 R	Nickel plated brass(N)	R16FRNSP1GDR	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 G	Stainless steel (S)	R16FFSSP1GDG	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 G	Nickel plated brass(N)	R16FFNSP1GDG	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 G	Stainless steel (S)	R16FRSSP1GDG	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 G	Nickel plated brass(N)	R16FRNSP1GDG	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 B	Stainless steel (S)	R16FFSSP1GDB	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 B	Nickel plated brass(N)	R16FFNSP1GDB	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 B	Stainless steel (S)	R16FRSSP1GDB	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 B	Nickel plated brass(N)	R16FRNSP1GDB	
Pushbutton, pin terminal MAINTAINED ACTION (Z)						
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 R	Stainless steel (S)	R16FFSSP1ZDR	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 R	Nickel plated brass(N)	R16FFNSP1ZDR	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 R	Stainless steel (S)	R16FRSSP1ZDR	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 R	Nickel plated brass(N)	R16FRNSP1ZDR	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 G	Stainless steel (S)	R16FFSSP1ZDG	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 G	Nickel plated brass(N)	R16FFNSP1ZDG	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 G	Stainless steel (S)	R16FRSSP1ZDG	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 G	Nickel plated brass(N)	R16FRNSP1ZDG	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 B	Stainless steel (S)	R16FFSSP1ZDB	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	 B	Nickel plated brass(N)	R16FFNSP1ZDB	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 B	Stainless steel (S)	R16FRSSP1ZDB	
• Pin Terminal (1.8×0.4mm) (SP)	RAISED (FR)	1NO/1NC	 B	Nickel plated brass(N)	R16FRNSP1ZDB	

RING ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal MOMENTARY ACTION					
Front shape		Colors of LED	Material	Numbers	
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓡ Stainless steel (S)	R16FFSSP1GRR	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓡ Nickel plated brass(N)	R16FFNSP1GRR	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓡ Stainless steel (S)	R16FRSSP1GRR	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓡ Nickel plated brass(N)	R16FRNSP1GRR	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓢ Stainless steel (S)	R16FFSSP1GRG	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓢ Nickel plated brass(N)	R16FFNSP1GRG	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓢ Stainless steel (S)	R16FRSSP1GRG	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓢ Nickel plated brass(N)	R16FRNSP1GRG	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓢ Stainless steel (S)	R16FFSSP1GRB	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓢ Nickel plated brass(N)	R16FFNSP1GRB	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓢ Stainless steel (S)	R16FRSSP1GRB	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓢ Nickel plated brass(N)	R16FRNSP1GRB	▶
Pushbutton, pin terminal MAINTAINED ACTION					
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓡ Stainless steel (S)	R16FFSSP1ZRR	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓡ Nickel plated brass(N)	R16FFNSP1ZRR	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓡ Stainless steel (S)	R16FRSSP1ZRR	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓡ Nickel plated brass(N)	R16FRNSP1ZRR	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓢ Stainless steel (S)	R16FFSSP1ZRG	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓢ Nickel plated brass(N)	R16FFNSP1ZRG	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓢ Stainless steel (S)	R16FRSSP1ZRG	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓢ Nickel plated brass(N)	R16FRNSP1ZRG	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓢ Stainless steel (S)	R16FFSSP1ZRB	▶
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC	Ⓢ Nickel plated brass(N)	R16FFNSP1ZRB	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓢ Stainless steel (S)	R16FRSSP1ZRB	▶
• Pin Terminal (1.8×0.4mm) (SP)	RAISED(FR)	1NO/1NC	Ⓢ Nickel plated brass(N)	R16FRNSP1ZRB	▶

Replace the symbol ▲ with the desired nominal voltage led below:
6v / 12v / 24v / 110v / 220v «others upon request»

Nota: 2 NC / 2NO upon request



R.series Anti-vandal pushbutton Ø16 mm

DUAL COLOR, Snap-action contact



ELECTRICAL SPECIFICATIONS

Switching rate max	lth:3A Ui:250VAC
Electrical life	50 000 cycles
Contact Resistance	≤50mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Pin Terminal(1.8×0.4mm)

MECHANICAL CHARACTERISTICS

The Front Shape	Flush / Raised	Operation travel	About 2.8 mm
Contact function	Momentary / Maintained	IK Degree	IK09
Operating Temp	-20°C / +55°C	IP Degree	IP67
Mechanical lifetime	200,000 cycles	Contact arrangement	1NO/1NC or 2NO/2NC
Panel Thickness	1 ~ 10 mm	head color	Local Colour
Torque	5 ~ 14 Nm	Color LED	R G B Y W
Actuating force	2.5 ~ 4 N	Lifetime LED	40 000 hours

LED color	R G B	colors of the led upon request	O W Y	Led circuit diagram	a b
LED rated voltage AC/DC	6V 12V 24V 36V 110V 220V				
LED rated amper	15mA 5mA				
Contact arrangement	1NO/1NC «Available in 2NO/2NC»				
Switching Operation	Snap-action contact				
Single-break and snap-action contact					
Using AC/DC led lamp, the terminal will not have any difference between anode and cathode					

DOT ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal (1.8x0.4mm) MOMENTARY ACTION (G)						
Pin Terminal (SP)	Front shape	Colors of LED one and two	Material	Numbers	Draw	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R B	Stainless steel (S)	R16FFSSP1GDRB▲	C	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R B	Nickel plated brass (N)	R16FFNSP1GDRB▲	C	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R G	Stainless steel (S)	R16FFSSP1GDRG▲	C	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R G	Nickel plated brass (N)	R16FFNSP1GDRG▲	C	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R B	Stainless steel (S)	R16FRSSP1GDRB▲	D	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R B	Nickel plated brass (N)	R16FRNSP1GDRB▲	D	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R G	Stainless steel (S)	R16FRSSP1GDRG▲	D	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R G	Nickel plated brass (N)	R16FRNSP1GDRG▲	D	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	G B	Stainless steel (S)	R16FFSSP1GDGB▲	C	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	G B	Nickel plated brass (N)	R16FFNSP1GDGB▲	C	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	G B	Stainless steel (S)	R16FRSSP1GDGB▲	D	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	G B	Nickel plated brass (N)	R16FRNSP1GDGB▲	D	

Pushbutton, pin terminal MAINTAINED ACTION (Z)						
Pin Terminal (SP)	Front shape	Colors of LED one and two	Material	Numbers	Draw	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R B	Stainless steel (S)	R16FFSSP1ZDRB▲	C	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R B	Nickel plated brass (N)	R16FFNSP1ZDRB▲	C	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R G	Stainless steel (S)	R16FFSSP1ZDRG▲	C	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R G	Nickel plated brass (N)	R16FFNSP1ZDRG▲	C	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R B	Stainless steel (S)	R16FRSSP1ZDRB▲	D	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R B	Nickel plated brass (N)	R16FRNSP1ZDRB▲	D	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R G	Stainless steel (S)	R16FRSSP1ZDRG▲	D	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R G	Nickel plated brass (N)	R16FRNSP1ZDRG▲	D	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	G B	Stainless steel (S)	R16FFSSP1ZDGB▲	C	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	G B	Nickel plated brass (N)	R16FFNSP1ZDGB▲	C	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	G B	Stainless steel (S)	R16FRSSP1ZDGB▲	D	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	G B	Nickel plated brass (N)	R16FRNSP1ZDGB▲	D	

RING ILLUMINATED STANDARD PART NUMBERS

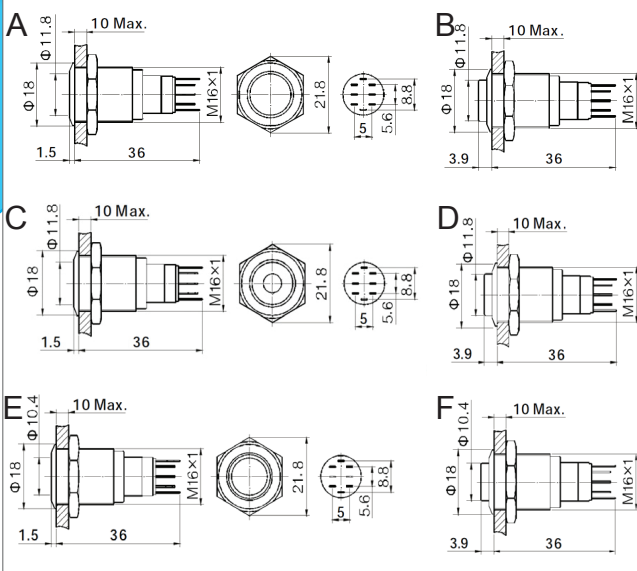
Pushbutton, pin terminal (1.8x0.4mm) MOMENTARY ACTION (G)						
Pin Terminal (SP)	Front shape	Colors of LED one and two	Material	Numbers	Draw	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R B	Stainless steel (S)	R16FFSSP1GRRB▲	E	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R B	Nickel plated brass (N)	R16FFNSP1GRRB▲	E	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R G	Stainless steel (S)	R16FFSSP1GRRG▲	E	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R G	Nickel plated brass (N)	R16FFNSP1GRRG▲	E	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R B	Stainless steel (S)	R16FRSSP1GRRB▲	F	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R B	Nickel plated brass (N)	R16FRNSP1GRRB▲	F	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R G	Stainless steel (S)	R16FRSSP1GRRG▲	F	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R G	Nickel plated brass (N)	R16FRNSP1GRRG▲	F	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	G B	Stainless steel (S)	R16FFSSP1GRGB▲	E	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	G B	Nickel plated brass (N)	R16FFNSP1GRGB▲	E	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	G B	Stainless steel (S)	R16FRSSP1GRGB▲	F	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	G B	Nickel plated brass (N)	R16FRNSP1GRGB▲	F	

Pushbutton, pin terminal MAINTAINED ACTION (Z)						
Pin Terminal (SP)	Front shape	Colors of LED one and two	Material	Numbers	Draw	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R B	Stainless steel (S)	R16FFSSP1ZRRB▲	E	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R B	Nickel plated brass (N)	R16FFNSP1ZRRB▲	E	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R G	Stainless steel (S)	R16FFSSP1ZRRG▲	E	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	R G	Nickel plated brass (N)	R16FFNSP1ZRRG▲	E	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R B	Stainless steel (S)	R16FRSSP1ZRRB▲	F	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R B	Nickel plated brass (N)	R16FRNSP1ZRRB▲	F	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R G	Stainless steel (S)	R16FRSSP1ZRRG▲	F	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	R G	Nickel plated brass (N)	R16FRNSP1ZRRG▲	F	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	G B	Stainless steel (S)	R16FFSSP1ZRGB▲	E	
Pin Terminal (SP) FLUSH (FF)	1NO/1NC	G B	Nickel plated brass (N)	R16FFNSP1ZRGB▲	E	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	G B	Stainless steel (S)	R16FRSSP1ZRGB▲	F	
Pin Terminal (SP) RAISED (FR)	1NO/1NC	G B	Nickel plated brass (N)	R16FRNSP1ZRGB▲	F	

Replace the symbol ▲ with the desired nominal voltage led below:

6v / 12v / 24v / 110v / 220v «others upon request»

Nota: 2 NC / 2NO upon request



R.series Anti-vandal pushbutton Ø19 mm

Slow-action contact



ELECTRICAL SPECIFICATIONS

Switching rate max:	1th:2A Ui: 36VDC
Electrical life	200.000 cycles
Contact Resistance	≤50mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Pin Terminal(2×0.5mm) Screw terminal, torque max 0.2 Nm

MECHANICAL CHARACTERISTICS

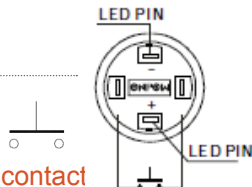
The Front Shape	Domed / Flush / Raised	Operation travel	About 1.8 mm
Contact function	Momentary	IK Degree	IK09
Operating Temp	-20°C / +55°C	IP Degree	IP65
Mechanical lifetime	200.000 cycles	Contact arrangement	1NO (1NC on request)
Panel Thickness	1 ~ 10 mm	head color	Material
Torque	5 ~ 14 Nm	Color LED	-
Actuating force	About 4N	Lifetime LED	-

LED rated voltage AC/DC 36 VDC MAX

LED rated amper 2 A MAX

Contact arrangement: 1NO (1NC on request)

Switching Operation Slow-action contact

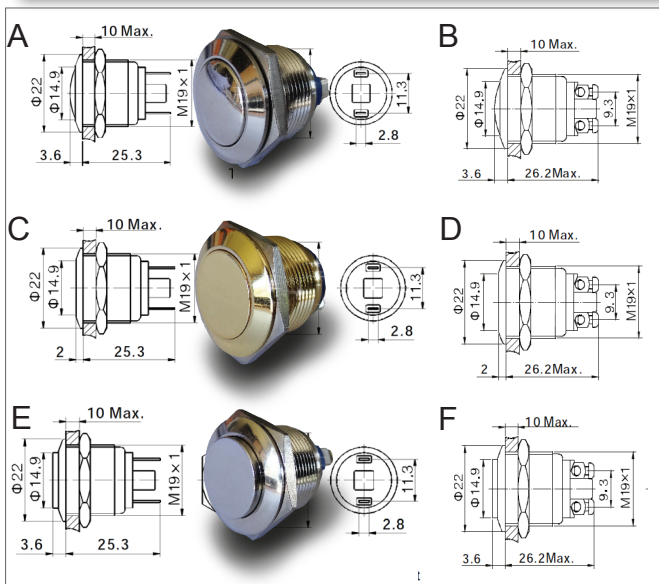


Double-break slow-motion contact

Using AC/DC led lamp, the terminal will not have any difference between anode and cathode

NON-ILLUMINATED STANDARD PART NUMBERS

Pushbutton screw terminals (ST)	Front shape	Material	Numbers	Draw
• Screw Terminals (ST)	DOMED (DF)	Stainless steel (S)	R19DFSSTAG	B
• Screw Terminals (ST)	DOMED (DF)	Nickel plated brass (N)	R19DFNSTAG	B
• Screw Terminals (ST)	DOMED (DF)	Brushed stainless steel (SB)	R19DFSBSSTAG	B
• Screw Terminals (ST)	DOMED (DF)	Gold plated brass (G)	R19DFGSTAG	B
• Screw Terminals (ST)	DOMED (DF)	Al alloy black (A)	R19DFASTAG	B
• Screw Terminals (ST)	FLUSH (FF)	Stainless steel (S)	R19FFSSTAG	D
• Screw Terminals (ST)	FLUSH (FF)	Nickel plated brass (N)	R19FFNSTAG	D
• Screw Terminals (ST)	FLUSH (FF)	Brushed stainless steel (SB)	R19FFSBSSTAG	D
• Screw Terminals (ST)	FLUSH (FF)	Gold plated brass (G)	R19FFGSTAG	D
• Screw Terminals (ST)	FLUSH (FF)	Al alloy black (A)	R19FFASTAG	D
• Screw Terminals (ST)	RAISED (FR)	Stainless steel (S)	R19FRSSTAG	F
• Screw Terminals (ST)	RAISED (FR)	Nickel plated brass (N)	R19FRNSTAG	F
• Screw Terminals (ST)	RAISED (FR)	Brushed stainless steel (SB)	R19FRSBSSTAG	F
• Screw Terminals (ST)	RAISED (FR)	Gold plated brass (G)	R19FRGSTAG	F
• Screw Terminals (ST)	RAISED (FR)	Al alloy black (A)	R19FRASTAG	F
Pushbutton pin terminal(2×0.5mm) (SP)				
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Stainless steel (S)	R19DFSPPAG	A
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Nickel plated brass (N)	R19DFNSPPAG	A
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Brushed stainless steel (SB)	R19DFSBSPPAG	A
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Gold plated brass (G)	R19DFGSPAG	A
• Pin Terminal(2×0.5mm) (SP)	DOMED (DF)	Al alloy black (A)	R19DFASPPAG	A
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Stainless steel (S)	R19FFSPPAG	C
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Nickel plated brass (N)	R19FFNSPPAG	C
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Brushed stainless steel (SB)	R19FFSBSPPAG	C
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Gold plated brass (G)	R19FFGSPAG	C
• Pin Terminal(2×0.5mm) (SP)	FLUSH (FF)	Al alloy black (A)	R19FFASPPAG	C
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Stainless steel (S)	R19FRSPPAG	E
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Nickel plated brass (N)	R19FRNSPPAG	E
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Brushed stainless steel (SB)	R19FRSBSPPAG	E
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Gold plated brass (G)	R19FRGSPAG	E
• Pin Terminal(2×0.5mm) (SP)	RAISED (FR)	Al alloy black (A)	R19FRASPPAG	E



Further options and information available: www.eozonline.com

FLUSH (FF)

DOMED (DF)

RAISED (FR)



Pin Terminals (SP)

Screw Terminals (ST)



Pin Terminals (SP)

Screw Terminals (ST)



Pin Terminals (SP)

Screw Terminals (ST)

R.series Anti-vandal pushbutton Ø19 mm

Fast-action contact



ELECTRICAL SPECIFICATIONS

Switching rate max	1th:5A Ui:250VAC
Electrical life	50 000 cycles
Contact Resistance	≤50mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Pin Terminal(2.8×0.5mm)
	Screw Terminals, torque max 0.2 Nm

MECHANICAL CHARACTERISTICS

The Front Shape	Flush	Operation travel	About 2.5 mm
Contact function	Momentary / Maintained	IK Degree	IK09
Operating Temp	-20°C / +55°C	IP Degree	IP65
Mechanical lifetime	1,000,000 cycles	Contact arrangement	1NO/1NC
Panel Thickness	1 ~ 10 mm	head color	Local Colour
Torque	5 ~ 14 Nm	Color LED	R G B Y W
Actuating force	About 4N	Lifetime LED	40 000 hours

LED color:	R G B	colors of the led upon request	O W Y	Led circuit diagram	
LED rated voltage AC/DC	6V 12V 24V 36V 110V 220V				
LED rated amper	15mA 5mA				
Contact arrangement	1NO/1NC				
Switching Operation	Fast-action contact				
Double-break and fast-action contact					
Using AC/DC led lamp, the terminal will not have any difference between anode and cathode					

NON-ILLUMINATED STANDARD PART NUMBERS

Pushbutton pin terminal, MOMENTARY ACTION (G), contact 1NO/1NF	Front shape	Material	Numbers	Draw
• Pin Terminal (2.8×0.5mm) (SP)	FLUSH (FF)	Stainless steel (S)	R19FFSSP3G	A
• Pin Terminal (2.8×0.5mm) (SP)	FLUSH (FF)	Black Zn-Al alloy (A)	R19FFASP3G	A
• Screw Terminals (ST)	FLUSH (FF)	Stainless steel (S)	R19FFST3G	B
• Screw Terminals (ST)	FLUSH (FF)	Black Zn-Al alloy (A)	R19FFAST3G	B
Pushbutton pin terminal, MAINTAINED ACTION (Z), contact 1NO/1NF	Front shape	Material	Numbers	Draw
• Pin Terminal (2.8×0.5mm) (SP)	FLUSH (FF)	Stainless steel (S)	R19FFSSP3Z	A
• Pin Terminal (2.8×0.5mm) (SP)	FLUSH (FF)	Black Zn-Al alloy (A)	R19FFASP3Z	A
• Screw Terminals (ST)	FLUSH (FF)	Stainless steel (S)	R19FFST3Z	B
• Screw Terminals (ST)	FLUSH (FF)	Black Zn-Al alloy (A)	R19FFAST3Z	B

DOT ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal MOMENTARY ACTION (G)	Front shape	Colors of LED	Material	Numbers	Draw
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC R	Stainless steel (S)	R19FFSSPAGDR	C
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC R	Black Zn-Al alloy(A)	R19FFASPAGDR	C
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC R	Stainless steel (S)	R19FFSSTAGDR	D
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC R	Black Zn-Al alloy(A)	R19FFASTAGDR	D
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC G	Stainless steel (S)	R19FFSSPAGDG	C
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC G	Black Zn-Al alloy(A)	R19FFASPAGDG	C
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC G	Stainless steel (S)	R19FFSSTAGDG	D
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC G	Black Zn-Al alloy(A)	R19FFASTAGDG	D
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC B	Stainless steel (S)	R19FFSSPAGDB	C
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC B	Black Zn-Al alloy(A)	R19FFASPAGDB	C
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC B	Stainless steel (S)	R19FFSSTAGDB	D
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC B	Black Zn-Al alloy(A)	R19FFASTAGDB	D

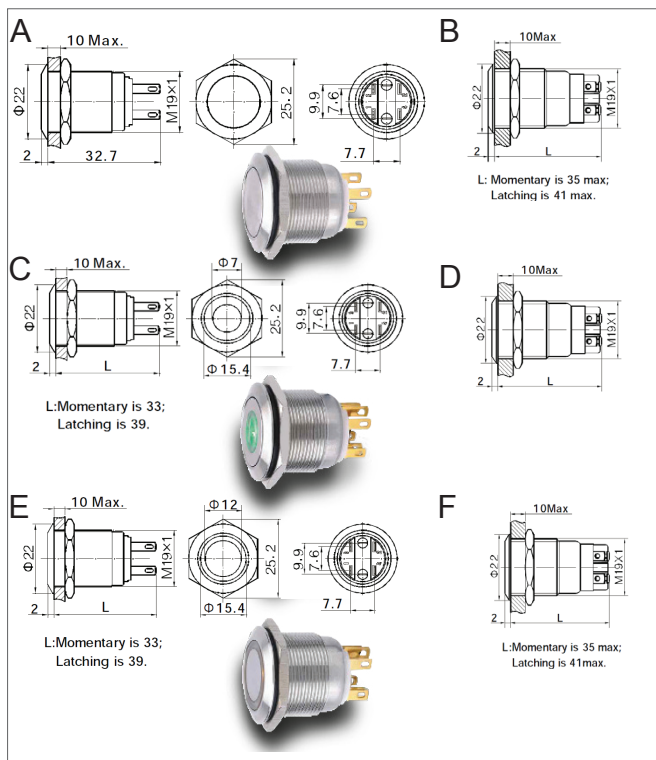
Pushbutton, pin terminal MAINTAINED ACTION (Z)	Front shape	Colors of LED	Material	Numbers	Draw
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC R	Stainless steel (S)	R19FFSSPAZDR	C
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC R	Black Zn-Al alloy(A)	R19FFASPZDR	C
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC R	Stainless steel (S)	R19FFSSTAZDR	D
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC R	Black Zn-Al alloy(A)	R19FFASTAZDR	D
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC G	Stainless steel (S)	R19FFSSPAZDG	C
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC G	Black Zn-Al alloy(A)	R19FFASPZDG	C
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC G	Stainless steel (S)	R19FFSSTAZDG	D
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC G	Black Zn-Al alloy(A)	R19FFASTAZDG	D
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC B	Stainless steel (S)	R19FFSSPAZDB	C
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC B	Black Zn-Al alloy(A)	R19FFASPZDB	C
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC B	Stainless steel (S)	R19FFSSTAZDB	D
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC B	Black Zn-Al alloy(A)	R19FFASTAZDB	D

RING ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal MOMENTARY ACTION (G)	Front shape	Colors of LED	Material	Numbers	Draw
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC R	Stainless steel (S)	R19FFSSPAGR	E
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC R	Black Zn-Al alloy(A)	R19FFASPAGR	E
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC R	Stainless steel (S)	R19FFSSTAGR	F
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC R	Black Zn-Al alloy(A)	R19FFASTAGR	F
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC G	Stainless steel (S)	R19FFSSPAGRG	E
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC G	Black Zn-Al alloy(A)	R19FFASPAGRG	E
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC G	Stainless steel (S)	R19FFSSTAGRG	F
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC G	Black Zn-Al alloy(A)	R19FFASTAGRG	F
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC B	Stainless steel (S)	R19FFSSPAGRB	E
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC B	Black Zn-Al alloy(A)	R19FFASPAGRB	E
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC B	Stainless steel (S)	R19FFSSTAGRB	F
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC B	Black Zn-Al alloy(A)	R19FFASTAGRB	F

Pushbutton, pin terminal MAINTAINED ACTION (Z)	Front shape	Colors of LED	Material	Numbers	Draw
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC R	Stainless steel (S)	R19FFSSPAZRR	E
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC R	Black Zn-Al alloy(A)	R19FFASPZRR	E
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC R	Stainless steel (S)	R19FFSSTAZRR	F
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC R	Black Zn-Al alloy(A)	R19FFASTAZRR	F
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC G	Stainless steel (S)	R19FFSSPAZRG	E
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC G	Black Zn-Al alloy(A)	R19FFASPZRG	E
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC G	Stainless steel (S)	R19FFSSTAZRG	F
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC G	Black Zn-Al alloy(A)	R19FFASTAZRG	F
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC B	Stainless steel (S)	R19FFSSPAZRB	E
• Pin Terminal (1.8×0.4mm) (SP)	FLUSH (FF)	1NO/1NC B	Black Zn-Al alloy(A)	R19FFASPZRB	E
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC B	Stainless steel (S)	R19FFSSTAZRB	F
• Screw Terminal (ST)	FLUSH (FF)	1NO/1NC B	Black Zn-Al alloy(A)	R19FFASTAZRB	F

Replace the symbol ▲ with the desired nominal voltage led below:
6v / 12v / 24v / 110v / 220v «others upon request»



Further options and information available: www.eozonline.com

R.series Anti-vandal pushbutton Ø19 mm

Single and Dual-colors, Snap-action contact



ELECTRICAL SPECIFICATIONS

Switching rate max	Ith:5A Ui:250VAC
Electrical life	50 000 cycles
Contact Resistance	≤50mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Pin Terminal(2.8×0.5mm)

MECHANICAL CHARACTERISTICS

The Front Shape	Flush	Operation travel	About 3.1mm
Contact function	Momentary / Maintained	IK Degree	IK09 / IK08 Ring
Operating Temp	-20°C / +55°C	IP Degree	IP67
Mechanical lifetime	1,000,000 cycles	Contact arrangement	1NO/1NC or 2NO/2NC
Panel Thickness	1 ~ 10 mm	head color	Local Colour
Torque	5 ~ 14 Nm	Color LED	R G Y O B W
Actuating force	3-5 Nm	Lifetime LED	40 000 hours

LED color: **R G B**

LED rated voltage AC/DC 6V 12V 24V 36V 110V 220V

LED rated amper

15mA

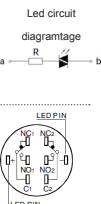
3mA

Contact arrangement 1NO/1NC «Available in 2NO/2NC»

Switching Operation Snap-action contact

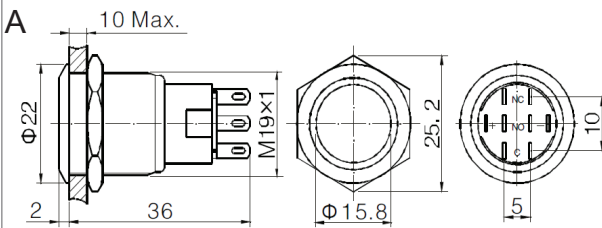
Single-break and snap-action contact

Using AC/DC led lamp, the terminal will not have any difference between anode and cathode



NON-ILLUMINATED STANDARD PART NUMBERS

Pushbutton pin terminal, MOMENTARY ACTION (G)	Front shape	Contact	Material	Numbers	Draw
• Pin Terminal (2.8×0.5mm) (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1G	A
• Pin Terminal (2.8×0.5mm) (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2G	A
Pushbutton pin terminal, MAINTAINED ACTION (Z)	Front shape	Contact	Material	Numbers	Draw
• Pin Terminal (2.8×0.5mm) (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1Z	A
• Pin Terminal (2.8×0.5mm) (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2Z	A



Single color illuminated

DOT ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal (2.8×0.5mm), MOMENTARY ACTION (G)	Front shape	Colors of LED	Material	Numbers	Draw
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GDR	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GDR	B
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GDG	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GDG	B
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GDB	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GDB	B
Pushbutton, pin terminal MAINTAINED ACTION (Z)	Front shape	Colors of LED	Material	Numbers	Draw
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZDR	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZDR	B
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZDG	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZDG	B
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZDB	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZDB	B

RING ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal MOMENTARY ACTION (G)	Front shape	Colors of LED	Material	Numbers	Draw
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GRR	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GRR	C
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GRG	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GRG	C
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GRB	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GRB	C
Pushbutton, pin terminal MAINTAINED ACTION (Z)	Front shape	Colors of LED	Material	Numbers	Draw
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZRR	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZRR	C
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZRG	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZRG	C
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZRB	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZRB	C

Dual color illuminated

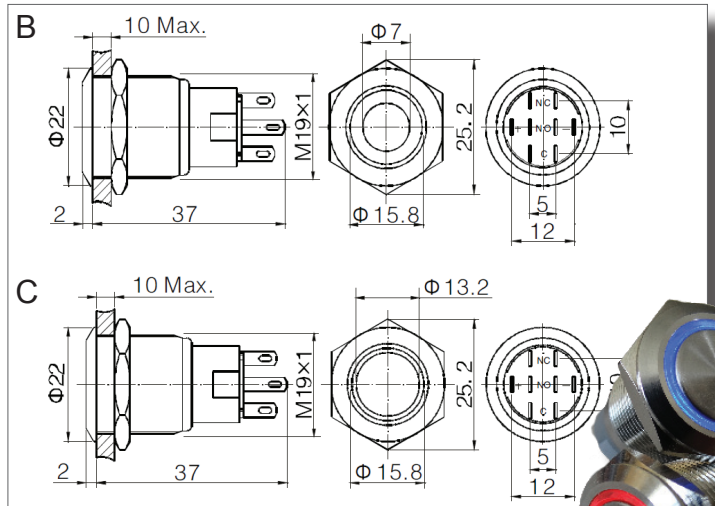
DOT ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal (2.8×0.5mm), MOMENTARY ACTION (G)	Front shape	Colors of LED one and two	Material	Numbers	Draw
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GDRB	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GDRB	B
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GDRG	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GDRG	B
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GDBG	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GDBG	B
Pushbutton, pin terminal (2.8×0.5mm), MAINTAINED ACTION (Z)	Front shape	Colors of LED one and two	Material	Numbers	Draw
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZDRB	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZDRB	B
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZDRG	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZDRG	B
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZDBG	B
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZDBG	B

RING ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal (2.8×0.5mm), MOMENTARY ACTION (G)	Front shape	Colors of LED one and two	Material	Numbers	Draw
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GRRB	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GRRB	C
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GRRG	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GRRG	C
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1GRRB	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2GRRB	C
Pushbutton, pin terminal (2.8×0.5mm), MAINTAINED ACTION (Z)	Front shape	Colors of LED one and two	Material	Numbers	Draw
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZRRB	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZRRB	C
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZRRG	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZRRG	C
• Pin Terminal (SP) FLUSH (FF) 1NO/1NC	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R19FFSSP1ZRRB	C
• Pin Terminal (SP) FLUSH (FF) 2NO/2NC	FLUSH (FF)	2NO/2NC	Stainless steel (S)	R19FFSSP2ZRRB	C

Replace the symbol ▲ with the desired nominal voltage led below: 6v / 12v / 24v / 110v / 220v «others upon request»



R.series Anti-vandal pushbutton Ø22 mm

Snap-action contact



ELECTRICAL SPECIFICATIONS

Switching rate max:	1th:5A Ui:250VAC
Electrical life	50 000 cycles
Contact Resistance	≤50mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Pin Terminal(2.8×0.5mm)

MECHANICAL CHARACTERISTICS

The Front Shape	Flush	Operation travel	About 2.5mm
Contact function:	Momentary / Maintained	IK Degree	IK09
Operating Temp	-20°C / +55°C	IP Degree	IP67
Mechanical lifetime	1,000,000 cycles	Contact arrangement	1NO/1NC
Panel Thickness	1 ~ 8mm	head color	Local Colour
Torque	5 ~ 14 Nm	Color LED	R G Y O B W
Actuating force	About 5.5N	Lifetime LED	40 000 hours



LED color:	R G B	colors of the led upon request	O W Y	LED circuit diagram	diagram
LED rated voltage AC/DC	6V 12V 24V	110V 220V			
LED rated amper	15mA	3mA			
Contact arrangement:	1NO/1NC «Available in 2NO/2NC»				
Switching Operation	Snap-action contact				
Double-break and snap-action contact					
Using AC/DC led lamp, the terminal will not have any difference between anode and cathode					

NON-ILLUMINATED STANDARD PART NUMBERS

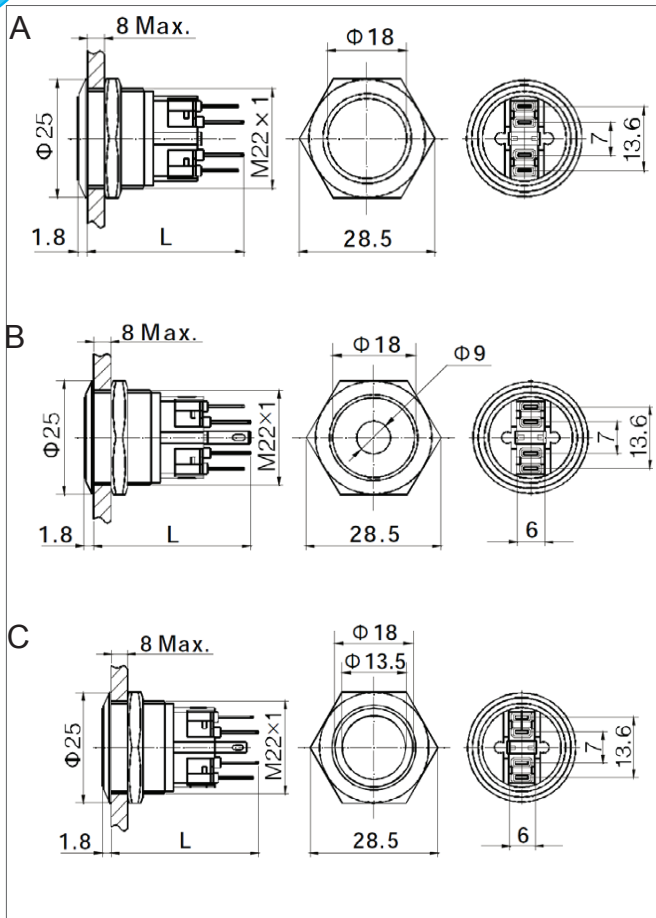
Front shape	Contact	Material	Numbers	Draw
Pushbutton pin terminal, MOMENTARY ACTION (G) ,				
• Pin Terminal (2.8×0.5mm) (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAG A
Pushbutton pin terminal, MAINTAINED ACTION (Z) ,				
• Pin Terminal (2.8×0.5mm) (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAZ A

DOT ILLUMINATED STANDARD PART NUMBERS

Front shape	Contact	Material	Numbers	Draw
Pushbutton, pin terminal (2.8×0.5mm), MOMENTARY ACTION (G)				
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAGDR B
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAGDG B
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAGDB B
Pushbutton, pin terminal MAINTAINED ACTION (Z)				
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAZDR B
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAZDG B
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAZDB B

RING ILLUMINATED STANDARD PART NUMBERS

Front shape	Contact	Material	Numbers	Draw
Pushbutton, pin terminal (2.8×0.5mm), MOMENTARY ACTION (G)				
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAGR C
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAGRG C
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAGRB C
Pushbutton, pin terminal MAINTAINED ACTION (Z)				
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAZR C
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAZRG C
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	Stainless steel (S)	R22FFSSPAZRB C



Further options and information available: www.eozonline.com

R.series Anti-vandal pushbutton Ø22 mm

MICRO-TRAVEL dual-color illuminated



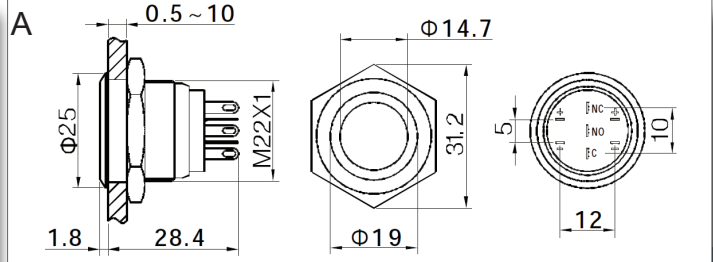
ELECTRICAL SPECIFICATIONS

Switching rate max	1A/125VAC, 0.5A/250VAC
Electrical life	300 000 cycles
Contact Resistance	≤30mΩ
Insulation Resistance	≥1000MΩ
Dielectric Strength	2000VAC
Terminal Type	Pin Terminal(2.4×0.3mm)

MECHANICAL CHARACTERISTICS

The Front Shape	Flush	Operation travel	About 0.5mm
Contact function	Momentary	IK Degree	IK09
Operating Temp	-20°C / +55°C	IP Degree	IP67
Mechanical lifetime	1,000,000 cycles	Contact arrangement	1NO/1NC
Panel Thickness	0.5 ~ 10mm	head color	Local Colour
Torque	5 ~ 14 Nm	Color LED	R G B Y W
Actuating force	About 15N	Lifetime LED	40 000 hours

LED color	R G B	colors of the led upon request	O W Y
LED rated voltage AC/DC	6V 12V 24V 110V 220V		
LED rated amper	15mA 5mA		
Contact arrangement	1NO/1NC		
Switching Operation	single-break fast-motion changeover contact		



Flame display



- Micro-travel, nice operating hand feeling;
- Using inner switch module, reliable and sensitive connection;
- Using two lamps; have many LED color to recognize different signal. The same color flame in crescent ring, the different color can generate third mixed flame color at the blending place.
- Used for low-current circuit to control the on-off signal of electronic logic circuit.

RING ILLUMINATED STANDARD PART NUMBERS

Pushbutton, pin terminal (2.8×0.5mm), MOMENTARY ACTION (G)						Numbers	Draw
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	R B	Stainless steel (S)	R22FFSSPAGMR	▲	
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	R G	Stainless steel (S)	R22FFSSPAGMR	▲	
• Pin Terminal (SP)	FLUSH (FF)	1NO/1NC	G B	Stainless steel (S)	R22FFSSPAGMR	▲	

Replace the symbol ▲ with the desired nominal voltage led below: 6v / 12v / 24v / 110v / 220v «others upon request»

Information

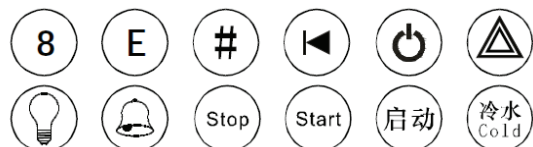
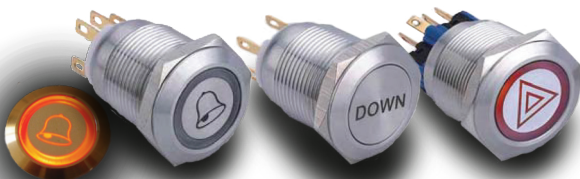
The Notice for Pin Welding

Any incorrect welding operations all possibly cause damage to plastic deformation, bad-contact switch ect. When soldering the pinterminals of switches and signal lamps, we should pay attention to the following points. Because it's easy to have the switch damaged if improper-operation.

- 1.Using suitable electric soldering iron and quickening welding speed. We suggest you use 30Welectric soldering iron and finish within 2 seconds when it reaches 320 .
- 2.Using right amount of scaling powder and putting the pin-terminals downwards when soldering.
- 3.It's better to use connectors than direct welding.

Customized Symbol Laser engraving

It has been the trend to laser engrave character and sign or customize lighting character and sign on the surface of metal push button. Customized metal surface makes the product personalized, and it has been a new trend.



Another symbol upon request or on the website eozonline.com

Customize the connection



Customize outside color



MEMO

Handwriting practice area with 20 horizontal dotted lines.



PIEZOELECTRIC

P.series pushbutton Switches

Non-illuminated, Snap-action contact

42 D1

Illuminated, Snap-action contact

43 D2

P.series Piezoelectric Keypads

44 D3

P.series Piezoelectric pushbutton Switches

Non-illuminated, Snap-action contact

The metal touch sensitive momentary switch is sturdy, long life, with no moving parts, 100% sealed, resistant to EMI and RFI and needs no power supply. Supplied with 12" AWG 24 wires or connector, in a wide range of dimensions.

FLUSH FACE SWITCHES Ø19MM

	CONTACT	ALUMINIUM	STAINLESS STEEL
• PB Momentary, Pin terminal (P)	NO	P19BS1A ▲ PA ▼	P19BS1A ▲ PS ▼
• PB Momentary, Wires terminal (W)	NO	P19BS1A ▲ WA ▼	P19BS1A ▲ WS ▼
• PB Momentary, Cables terminal (C)	NO	P19BS1A ▲ CA ▼	P19BS1A ▲ CS ▼
• PB Momentary, Pin terminal (P)	NC	P19BS1B ▲ PA ▼	P19BS1B ▲ PS ▼
• PB Momentary, Wires terminal (W)	NC	P19BS1B ▲ WA ▼	P19BS1B ▲ WS ▼
• PB Momentary, Cables terminal (C)	NC	P19BS1B ▲ CA ▼	P19BS1B ▲ CS ▼

RECESSED FACE SWITCHES Ø19MM

	CONTACT	ALUMINIUM	STAINLESS STEEL
• PB Momentary, Pin terminal (P)	NO	P19BS2A ▲ PA ▼	P19BS2A ▲ PS ▼
• PB Momentary, Wires terminal (W)	NO	P19BS2A ▲ WA ▼	P19BS2A ▲ WS ▼
• PB Momentary, Cables terminal (C)	NO	P19BS2A ▲ CA ▼	P19BS2A ▲ CS ▼
• PB Momentary, Pin terminal (P)	NC	P19BS2B ▲ PA ▼	P19BS2B ▲ PS ▼
• PB Momentary, Wires terminal (W)	NC	P19BS2B ▲ WA ▼	P19BS2B ▲ WS ▼
• PB Momentary, Cables terminal (C)	NC	P19BS2B ▲ CA ▼	P19BS2B ▲ CS ▼

FLUSH FACE SWITCHES Ø22MM

	CONTACT	ALUMINIUM	STAINLESS STEEL
• PB Momentary, Pin terminal (P)	NO	P22MA1A ▲ PA ▼	P22MA1A ▲ PS ▼
• PB Momentary, Wires terminal (W)	NO	P22MA1A ▲ WA ▼	P22MA1A ▲ WS ▼
• PB Momentary, Cables terminal (C)	NO	P22MA1A ▲ CA ▼	P22MA1A ▲ CS ▼
• PB Momentary, Pin terminal (P)	NC	P22MA1B ▲ PA ▼	P22MA1B ▲ PS ▼
• PB Momentary, Wires terminal (W)	NC	P22MA1B ▲ WA ▼	P22MA1B ▲ WS ▼
• PB Momentary, Cables terminal (C)	NC	P22MA1B ▲ CA ▼	P22MA1B ▲ CS ▼

RECESSED FACE SWITCHES Ø22MM

	CONTACT	ALUMINIUM	STAINLESS STEEL
• PB Momentary, Pin terminal (P)	NO	P22MA2A ▲ PA ▼	P22MA2A ▲ PS ▼
• PB Momentary, Wires terminal (W)	NO	P22MA2A ▲ WA ▼	P22MA2A ▲ WS ▼
• PB Momentary, Cables terminal (C)	NO	P22MA2A ▲ CA ▼	P22MA2A ▲ CS ▼
• PB Momentary, Pin terminal (P)	NC	P22MA2B ▲ PA ▼	P22MA2B ▲ PS ▼
• PB Momentary, Wires terminal (W)	NC	P22MA2B ▲ WA ▼	P22MA2B ▲ WS ▼
• PB Momentary, Cables terminal (C)	NC	P22MA2B ▲ CA ▼	P22MA2B ▲ CS ▼

FLUSH FACE SWITCHES Ø16MM

	CONTACT	ALUMINIUM	STAINLESS STEEL
• PB Momentary, Pin terminal (P)	NO	P16MF1A ▲ PA ▼	P16MF1A ▲ PS ▼
• PB Momentary, Wires terminal (W)	NO	P16MF1A ▲ WA ▼	P16MF1A ▲ WS ▼
• PB Momentary, Cables terminal (C)	NO	P16MF1A ▲ CA ▼	P16MF1A ▲ CS ▼
• PB Momentary, Pin terminal (P)	NC	P16MF1B ▲ PA ▼	P16MF1B ▲ PS ▼
• PB Momentary, Wires terminal (W)	NC	P16MF1B ▲ WA ▼	P16MF1B ▲ WS ▼
• PB Momentary, Cables terminal (C)	NC	P16MF1B ▲ CA ▼	P16MF1B ▲ CS ▼

RECESSED FACE SWITCHES Ø16MM

	CONTACT	ALUMINIUM	STAINLESS STEEL
• PB Momentary, Pin terminal (P)	NO	P16MF2A ▲ PA ▼	P16MF2A ▲ PS ▼
• PB Momentary, Wires terminal (W)	NO	P16MF2A ▲ WA ▼	P16MF2A ▲ WS ▼
• PB Momentary, Cables terminal (C)	NO	P16MF2A ▲ CA ▼	P16MF2A ▲ CS ▼
• PB Momentary, Pin terminal (P)	NC	P16MF2B ▲ PA ▼	P16MF2B ▲ PS ▼
• PB Momentary, Wires terminal (W)	NC	P16MF2B ▲ WA ▼	P16MF2B ▲ WS ▼
• PB Momentary, Cables terminal (C)	NC	P16MF2B ▲ CA ▼	P16MF2B ▲ CS ▼

FLUSH FACE SWITCHES Ø16MM

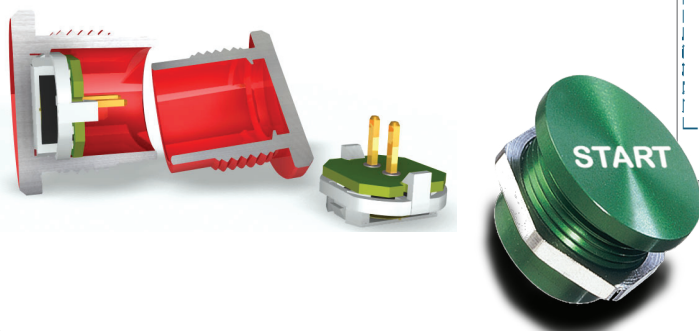
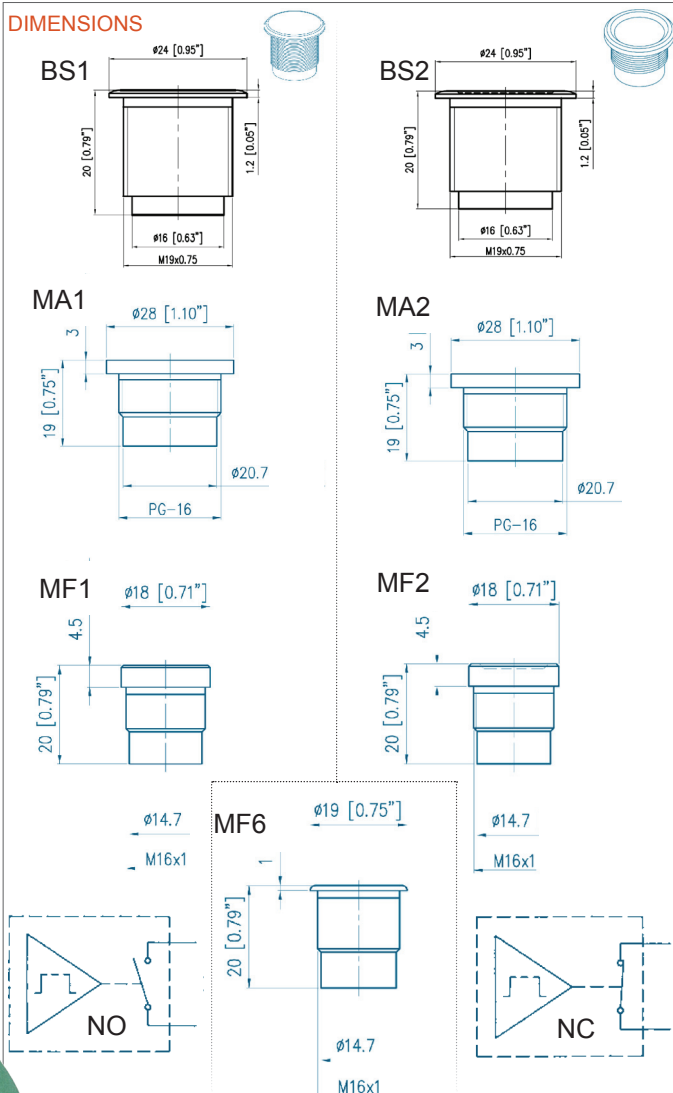
	CONTACT	ALUMINIUM	STAINLESS STEEL
• PB Momentary, Pin terminal (P)	NO	P16MF6A ▲ PA ▼	P16MF6A ▲ PS ▼
• PB Momentary, Wires terminal (W)	NO	P16MF6A ▲ WA ▼	P16MF6A ▲ WS ▼
• PB Momentary, Cables terminal (C)	NO	P16MF6A ▲ CA ▼	P16MF6A ▲ CS ▼
• PB Momentary, Pin terminal (P)	NC	P16MF6B ▲ PA ▼	P16MF6B ▲ PS ▼
• PB Momentary, Wires terminal (W)	NC	P16MF6B ▲ WA ▼	P16MF6B ▲ WS ▼
• PB Momentary, Cables terminal (C)	NC	P16MF6B ▲ CA ▼	P16MF6B ▲ CS ▼

▼ Choose the color of the anodized «D = gold / R = red / B = blue / N = black / G = green / A = natural»
▲ Choose switching Current: (1) = 0.2A / (2) = 1A

CHARACTERISTICS

Switching Voltage	24 V AC/DC Max
Switching Current	▲ Choose switching Current: (1) = 0.2A / (2) = 1A
Breaking Capacity	10W Max
Lifetime (at Rated Breaking Capacity)	50 Million cycles
Insulation Resistance (OFF)	> 10 MOhms
Initial Contact Resistance (ON)	< 20 Ohms
Capacity	30 pF
Make Impulse time	Up to 30 Sec.
Contact Configuration	Free polarity
Switching Function	N.O. (A) - N.C. (B)
Switching Function	Momentary
Actuating Force	3-5 N TYP
Starting Torque	2.5 Nm
IK Protection Class (Shock)	IK 03
Switch Temperature rating(hock)	-40 to +125 °C
LED Temperature rating	-40 to +125
Protection Class	IP 68 - NEMA 4
Electrical Connection	Supplied with 12" AWG 24 wires or connector
Anodize Colors	▼ Choose the color of the anodized : «D = gold / R = red / B = blue / N = black / G = green / A = natural»
Material	Aluminium / Stainless Steel

DIMENSIONS



P.series Piezoelectric pushbutton Switches Illuminated, Snap-action contact

RING ILLUMINATED, FLUSH FACE SWITCHES Ø22MM



	ALUMINIUM	STAINLESS STEEL
• PB Red illuminated, Pin terminal (P)	P22BR1A▲PA▼R■	P22BR1A▲PS▼R■
• PB Green illuminated, Pin terminal (P)	P22BR1A▲PA▼G■	P22BR1A▲PS▼G■
• PB Yellow illuminated, Pin terminal (P)	P22BR1A▲PA▼Y■	P22BR1A▲PS▼Y■
• PB Red illuminated, Wires terminal	P22BR1A▲WA▼R■	P22BR1A▲WS▼R■
• PB Green illuminated, Wires terminal	P22BR1A▲WA▼G■	P22BR1A▲WS▼G■
• PB Yellow illuminated, Wires terminal	P22BR1A▲WA▼Y■	P22BR1A▲WS▼Y■
• PB Red illuminated, Cables terminal	P22BR1A▲CA▼R■	P22BR1A▲CS▼R■
• PB Green illuminated, Cables terminal	P22BR1A▲CA▼G■	P22BR1A▲CS▼G■
• PB Yellow illuminated, Cables terminal	P22BR1A▲CA▼Y■	P22BR1A▲CS▼Y■

RING ILLUMINATED, RECESSED FACE SWITCHES Ø22MM



	ALUMINIUM	STAINLESS STEEL
• PB Red illuminated, Pin terminal (P)	P22BR2A▲PA▼R■	P22BR2A▲PS▼R■
• PB Green illuminated, Pin terminal (P)	P22BR2A▲PA▼G■	P22BR2A▲PS▼G■
• PB Yellow illuminated, Pin terminal (P)	P22BR2A▲PA▼Y■	P22BR2A▲PS▼Y■
• PB Red illuminated, Wires terminal	P22BR2A▲WA▼R■	P22BR2A▲WS▼R■
• PB Green illuminated, Wires terminal	P22BR2A▲WA▼G■	P22BR2A▲WS▼G■
• PB Yellow illuminated, Wires terminal	P22BR2A▲WA▼Y■	P22BR2A▲WS▼Y■
• PB Red illuminated, Cables terminal	P22BR2A▲CA▼R■	P22BR2A▲CS▼R■
• PB Green illuminated, Cables terminal	P22BR2A▲CA▼G■	P22BR2A▲CS▼G■
• PB Yellow illuminated, Cables terminal	P22BR2A▲CA▼Y■	P22BR2A▲CS▼Y■

DOT ILLUMINATED, FLUSH FACE SWITCHES Ø22MM



	ALUMINIUM	STAINLESS STEEL
• PB Red illuminated, Pin terminal (P)	P22ML1A▲PA▼R5	P22ML1A▲PS▼R5
• PB Green illuminated, Pin terminal (P)	P22ML1A▲PA▼G5	P22ML1A▲PS▼G5
• PB Yellow illuminated, Pin terminal (P)	P22ML1A▲PA▼Y5	P22ML1A▲PS▼Y5
• PB Red illuminated, Wires terminal	P22ML1A▲WA▼R5	P22ML1A▲WS▼R5
• PB Green illuminated, Wires terminal	P22ML1A▲WA▼G5	P22ML1A▲WS▼G5
• PB Yellow illuminated, Wires terminal	P22ML1A▲WA▼Y5	P22ML1A▲WS▼Y5
• PB Red illuminated, Cables terminal	P22ML1A▲CA▼R5	P22ML1A▲CS▼R5
• PB Green illuminated, Cables terminal	P22ML1A▲CA▼G5	P22ML1A▲CS▼G5
• PB Yellow illuminated, Cables terminal	P22ML1A▲CA▼Y5	P22ML1A▲CS▼Y5

DOT ILLUMINATED, RECESSED FACE SWITCHES Ø22MM

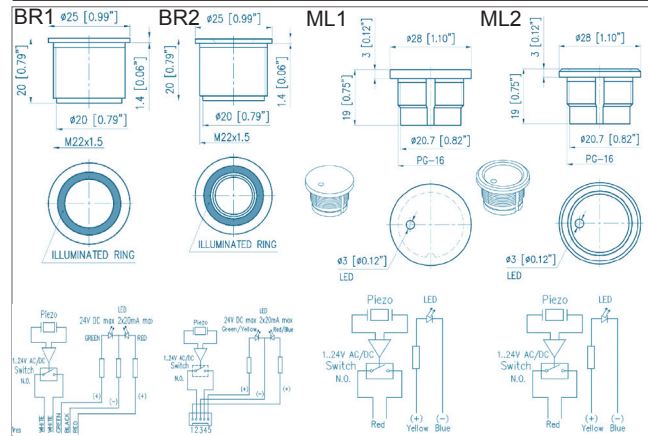


	ALUMINIUM	STAINLESS STEEL
• PB Red illuminated, Pin terminal (P)	P22ML2A▲PA▼R5	P22ML2A▲PS▼R5
• PB Green illuminated, Pin terminal (P)	P22ML2A▲PA▼G5	P22ML2A▲PS▼G5
• PB Yellow illuminated, Pin terminal (P)	P22ML2A▲PA▼Y5	P22ML2A▲PS▼Y5
• PB Red illuminated, Wires terminal	P22ML2A▲WA▼R5	P22ML2A▲WS▼R5
• PB Green illuminated, Wires terminal	P22ML2A▲WA▼G5	P22ML2A▲WS▼G5
• PB Yellow illuminated, Wires terminal	P22ML2A▲WA▼Y5	P22ML2A▲WS▼Y5
• PB Red illuminated, Cables terminal	P22ML2A▲CA▼R5	P22ML2A▲CS▼R5
• PB Green illuminated, Cables terminal	P22ML2A▲CA▼G5	P22ML2A▲CS▼G5
• PB Yellow illuminated, Cables terminal	P22ML2A▲CA▼Y5	P22ML2A▲CS▼Y5

- ▲ Choose switching Current: (1) = 0.2A / (2) = 1A
- ▼ Choose the color of the anodized «D = gold / R = red / B = blue / N = black / G = green / A = natural»
- Replace the symbol with the desired nominal voltage led below: 12v or 24v
- Nota: NC on request

CHARACTERISTICS

Switching Voltage	24 V AC/DC Max
Switching Current	▲ Choose switching Current: (1) = 0.2A / (2) = 1A
Breaking Capacity	1W Max
Lifetime (at Rated Breaking Capacity)	50 Million cycles
Insulation Resistance (OFF)	Ring version:>5MOhms, Dot version:>10MOhms
Initial Contact Resistance (ON)	< 20 Ohms
Capacity	Ring version: 25 pF, Dot version:30 pF
Make Impulse time	Up to 30 Sec.
Contact Configuration	Free polarity
Switching Function	N.O.(A) - N.C. (B)
Actuating Force	3-5 N TYP
Starting Torque	2.5 Nm
IK Protection Class (Shock)	IK 03
Switch Temperature rating(hock)	-40 to +125 °C
LED Temperature rating	Ring version:-40 to +70, Dot version:-40 to +125
Protection Class	IP 68 - NEMA 4
Electrical Connection	Pin, wires or connector
Anodize Colors	▼ Choose the color of the anodized : «D = gold / R = red / B = blue / N = black / G = green / A = natural»
Material	Aluminium / Stainless Steel
Led Collors	R = red / G = green / Y = Yellow
Nominal voltage	■ Ring version: 12 or 24V «others on request» Dot version: 5V «others on request»



P.series Piezoelectric pushbutton Switches CONTINUOUS & TOGGLE function

FLUSH FACE SWITCHES Ø22MM



	CONTACT	ALUMINIUM	STAINLESS STEEL
• PB Continuous Pin terminal (P)	NO	P19BA1C▲XPA▼	P19BA1C▲XPS▼
• PB Continuous, Wires terminal (W)	NO	P19BA1C▲XWA▼	P19BA1C▲XWS▼
• PB Continuous, Cables terminal (C)	NO	P19BA1C▲XCA▼	P19BA1C▲XCS▼
• PB Toggle Pin terminal (P)	NO	P19BA1T▲XPA▼	P19BA1T▲XPS▼
• PB Toggle, Wires terminal (W)	NO	P19BA1T▲XWA▼	P19BA1T▲XWS▼
• PB Toggle, Cables terminal (C)	NO	P19BA1T▲XCA▼	P19BA1T▲XCS▼

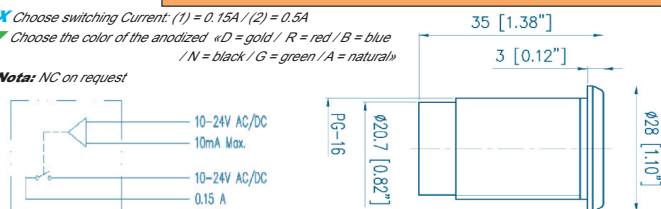
RECESSED FACE SWITCHES Ø22MM



	CONTACT	ALUMINIUM	STAINLESS STEEL
• PB Continuous Pin terminal (P)	NO	P19BA2C▲XPA▼	P19BA2C▲XPS▼
• PB Continuous, Wires terminal (W)	NO	P19BA2C▲XWA▼	P19BA2C▲XWS▼
• PB Continuous, Cables terminal (C)	NO	P19BA2C▲XCA▼	P19BA2C▲XCS▼
• PB Toggle Pin terminal (P)	NO	P19BA2T▲XPA▼	P19BA2T▲XPS▼
• PB Toggle, Wires terminal (W)	NO	P19BA2T▲XWA▼	P19BA2T▲XWS▼
• PB Toggle, Cables terminal (C)	NO	P19BA2T▲XCA▼	P19BA2T▲XCS▼

- ▲ Choose switching Current: (1) = 0.15A / (2) = 0.5A
- ▼ Choose the color of the anodized «D = gold / R = red / B = blue / N = black / G = green / A = natural»

Nota: NC on request



CHARACTERISTICS

Switching Voltage	24 V AC/DC Max
Switching Current	▲ Choose switching Current: (1) = 0.15A / (2) = 0.5A
Breaking Capacity	10W Max
Lifetime (at Rated Breaking Capacity)	50.000.000 (50 Million) cycles
Insulation Resistance (OFF)	> 10MOhms
Initial Contact Resistance (ON)	< 20 Ohms
Capacity	30 pF
Make Impulse time	Up to 30 Sec.
Contact Configuration	Free polarity
Switching Function	N.O.(A) - N.C. (B)
Switching Function	Momentary
Actuating Force	3-5 N TYP
Starting Torque	2.5 Nm
IK Protection Class (Shock)	IK 03
LED Temperature rating	-40 to +125 °C
Protection Class	IP 68 - NEMA 4
Anodize Colors	▼ Choose the color of the anodized : «D = gold / R = red / B = blue / N = black / G = green / A = natural»
Material	Aluminium / Stainless Steel

P.series Piezoelectric Keypads



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power supply:	12 - 24 V
Current	0.1A
Switching Current	2A
Relay Form	C
≤1 Ω	≤1 Ω
Remote Door Opening	Yes
Master Code: 4-8 digits	4-8 digits
User Codes:	up to 200; 4-8 digits each

MECHANICAL CHARACTERISTICS

Operating Temperature	-20°C to +75°C
Case / Caver	
Protection degree	IP68
Meets MIL standards 810C, 202E, 461B and 462 for shock vibration.	

The range of Padde keypads are a complete single door self contained access control system for up to 200 users.

Designed to US military specifications for shock, vibration, temperature and impact these high quality keypads contain the latest in "Piezo" technology. The sensors embedded below the metal surface of the keys on all Padde Piezo keypads are made of a ceramic alloy that only needs capacitance to activate.

Two versions are available: a simple to program stand-alone single door controller for 200 users, and a 26 bit Wiegand protocol keypad.

Features:

- Up to 200 user codes - 100 million combinations, 4-8 digits
- Visual & Audible Feedback
- Vandal Proof / Tamper Proof
- Water & Dust Proof
- Self-contained
- Remote Door Opening
- Patented Piezo Technology
- LED Signaling Red/Green



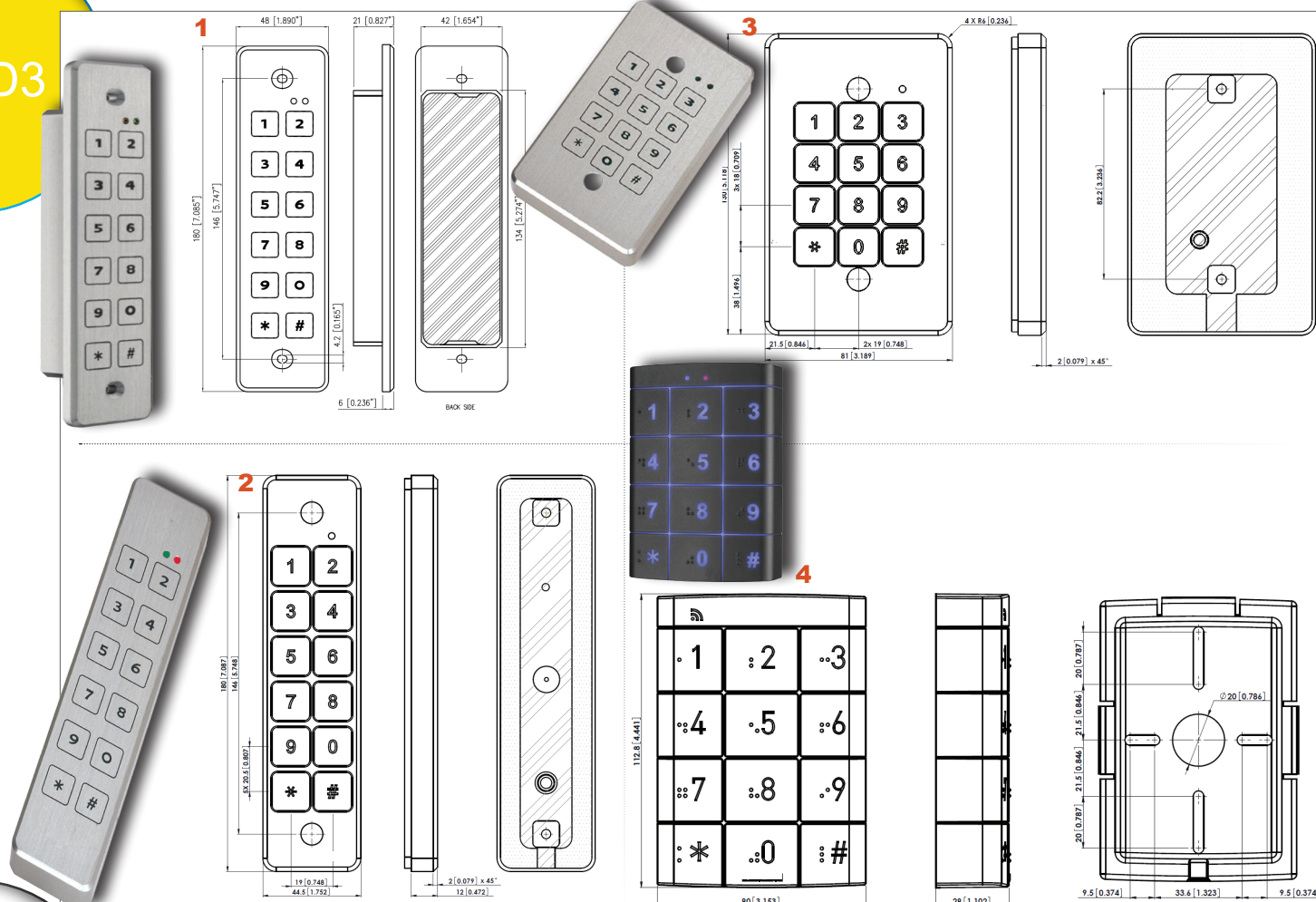
Access Control Single Door

• 2x6 Keypad, mortise lock	1	PK626M
• 2x6 Keypad, surface	2	PK626S
• 3x4 Keypad, surface or single gang	3	PK634S
• 3x4 Keypad, surface or single gang	4	PKP2P

Access Control Reader

• 2x6 Keypad Wiegand 26 Bit, surface	2	PKW2626S
• 3x4 Keypad Wiegand 26 Bit, surface or single gang	3	PKW2634S
• 3x4 Keypad Wiegand 26 Bit, surface or single gang	4	PKWP2P26
• 3x4 Keypad Wiegand 42 Bit, surface or single gang	4	PKWP2P42

D3



CONTENTS BY REFERENCE

Part numbers	Series	Page
P16MF1B▲CA▼	P.series	42
P16MF1B▲CS▼	P.series	42
P16MF1B▲PA▼	P.series	42
P16MF1B▲PS▼	P.series	42
P16MF1B▲WA▼	P.series	42
P16MF1B▲WS▼	P.series	42
P16MF2A▲CA▼	P.series	42
P16MF2A▲CS▼	P.series	42
P16MF2A▲PA▼	P.series	42
P16MF2A▲PS▼	P.series	42
P16MF2A▲WA▼	P.series	42
P16MF2A▲WS▼	P.series	42
P16MF2B▲CA▼	P.series	42
P16MF2B▲CS▼	P.series	42
P16MF2B▲PA▼	P.series	42
P16MF2B▲PS▼	P.series	42
P16MF2B▲WA▼	P.series	42
P16MF2B▲WS▼	P.series	42
P19BA1C✕CA▼	P.series	43
P19BA1C✕CS▼	P.series	43
P19BA1C✕PA▼	P.series	43
P19BA1C✕PS▼	P.series	43
P19BA1C✕WA▼	P.series	43
P19BA1C✕WS▼	P.series	43
P19BA2C✕CA▼	P.series	43
P19BA2C✕CS▼	P.series	43
P19BA2C✕PA▼	P.series	43
P19BA2C✕PS▼	P.series	43
P19BA2C✕WA▼	P.series	43
P19BA2C✕WS▼	P.series	43
P19BS1A▲CA▼	P.series	42
P19BS1A▲CS▼	P.series	42
P19BS1A▲PA▼	P.series	42
P19BS1A▲PS▼	P.series	42
P19BS1A▲WA▼	P.series	42
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P19BS1B▲PA▼	P.series	42
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P22BR1A▲CA▼G■	P.series	43
P22BR1A▲CA▼R■	P.series	43
P22BR1A▲CA▼Y■	P.series	43
P22BR1A▲CS▼G■	P.series	43
P22BR1A▲CS▼R■	P.series	43
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P22BR2A▲CA▼R■	P.series	43
P22BR2A▲CA▼Y■	P.series	43
P22BR2A▲CS▼G■	P.series	43
P22BR2A▲CS▼R■	P.series	43
P22BR2A▲CS▼Y■	P.series	43
P22BR2A▲PA▼G■	P.series	43

CONTENTS BY REFERENCE

Part numbers	Series	Page
P22BR2A▲PA▼R■	P.series	43
P22BR2A▲PA▼Y■	P.series	43
P22BR2A▲PS▼G■	P.series	43
P22BR2A▲PS▼R■	P.series	43
P22BR2A▲PS▼Y■	P.series	43
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P22BR2A▲WS▼R■	P.series	43
P22BR2A▲WS▼Y■	P.series	43
P22MA1A▲CA▼	P.series	42
P22MA1A▲CS▼	P.series	42
P22MA1A▲PA▼	P.series	42
P22MA1A▲PS▼	P.series	42
P22MA1A▲WA▼	P.series	42
P22MA1A▲WS▼	P.series	42
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P22MA1B▲CS▼	P.series	42
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P22MA2A▲CA▼	P.series	42
P22MA2A▲CS▼	P.series	42
P22MA2A▲PA▼	P.series	42
P22MA2A▲PS▼	P.series	42
P22MA2A▲WA▼	P.series	42
P22MA2A▲WS▼	P.series	42
P22MA2B▲CA▼	P.series	42
P22MA2B▲CS▼	P.series	42
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P22ML1A▲WS▼R5	P.series	43
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P22ML2A▲CA▼G5	P.series	43
P22ML2A▲CA▼R5	P.series	43
P22ML2A▲CA▼Y5	P.series	43
P22ML2A▲CS▼G5	P.series	43
P22ML2A▲CS▼R5	P.series	43
P22ML2A▲CS▼Y5	P.series	43
P22ML2A▲PA▼G5	P.series	43
P22ML2A▲PA▼R5	P.series	43
P22ML2A▲PA▼Y5	P.series	43
P22ML2A▲PS▼G5	P.series	43
P22ML2A▲PS▼R5	P.series	43
P22ML2A▲PS▼Y5	P.series	43
P22ML2A▲WA▼G5	P.series	43
P22ML2A▲WA▼R5	P.series	43
P22ML2A▲WA▼Y5	P.series	43
P22ML2A▲WS▼G5	P.series	43
P22ML2A▲WS▼R5	P.series	43
P22ML2A▲WS▼Y5	P.series	43
PK626M	PK.series	44
PK626S	PK.series	44
PK634S	PK.series	44
PKP2P	PK.series	44
PKW626S	PK.series	44
PKW634S	PK.series	44
PKWP2P26	PK.series	44
PKWP2P42	PK.series	44

Part numbers	Series	Page
R12DRASPAGB	R.series	30
R12DRASPAGDBB▲	R.series	31
R12DRASPAGDGG▲	R.series	31
R12DRASPAGDOO▲	R.series	31
R12DRASPAGDRR▲	R.series	31
R12DRASPAGDWW▲	R.series	31
R12DRASPAGDYY▲	R.series	31
R12DRASPAGG	R.series	30
R12DRASPAGN	R.series	30
R12DRASPAGO	R.series	30
R12DRASPAGR	R.series	30
R12DRASPAGW	R.series	30
R12DRASPAGY	R.series	30
R12DRASTAGB	R.series	30
R12DRASTAGG	R.series	30
R12DRASTAGN	R.series	30
R12DRASTAGO	R.series	30
R12DRASTAGR	R.series	30
R12DRASTAGW	R.series	30
R12DRASTAGY	R.series	30
R12DRNSPAG	R.series	30
R12DRNSTAG	R.series	30
R12DRSSPAG	R.series	30
R12DRSSTAG	R.series	30
R12DSASPAGB	R.series	30
R12DSASPAGG	R.series	30
R12DSASPAGN	R.series	30
R12DSASPAGO	R.series	30
R12DSASPAGR	R.series	30
R12DSASPAGW	R.series	30
R12DSASPAGY	R.series	30
R12DSASTAGB	R.series	30
R12DSASTAGG	R.series	30
R12DSASTAGN	R.series	30
R12DSASTAGO	R.series	30
R12DSASTAGR	R.series	30
R12DSASTAGW	R.series	30
R12DSASTAGY	R.series	30
R12DSCSPAGB	R.series	30
R12DSCSPAGG	R.series	30
R12DSCSPAGN	R.series	30
R12DSCSPAGO	R.series	30
R12DSCSPAGR	R.series	30
R12DSCSPAGW	R.series	30
R12DSCSPAGY	R.series	30
R12DSCSTAGB	R.series	30
R12DSCSTAGG	R.series	30
R12DSCSTAGN	R.series	30
R12DSCSTAGO	R.series	30
R12DSCSTAGR	R.series	30
R12DSCSTAGW	R.series	30
R12DSCSTAGY	R.series	30
R16DFASPAG	R.series	32
R16DFASTAG	R.series	32
R16DFGSPAG	R.series	32
R16DFGSTAG	R.series	32
R16DFNSPAG	R.series	32
R16DFNSTAG	R.series	32
R16DFSPPAG	R.series	32
R16DFSSTAG	R.series	32
R16FFASPAG	R.series	32
R16FFASTAG	R.series	32
R16FFGSPAG	R.series	32
R16FFGSTAG	R.series	32
R16FFNSP1G	R.series	33
R16FFNSP1GDGB▲	R.series	34
R16FFNSP1GDRB▲	R.series	34
R16FFNSP1GDRG▲	R.series	34
R16FFNSP1GRGB▲	R.series	34
R16FFNSP1GRRB▲	R.series	34
R16FFNSP1GRRG▲	R.series	34
R16FFNSP1IZ	R.series	33
R16FFNSP1ZDGB▲	R.series	34
R16FFNSP1ZDRB▲	R.series	34
R16FFNSP1ZDRG▲	R.series	34
R16FFNSP1ZRGB▲	R.series	34
R16FFNSP1ZRRB▲	R.series	34
R16FFNSP1ZRRG▲	R.series	34
R16FRNSPAG	R.series	32
R16FRNSTAG	R.series	32
R16FRSSP1G	R.series	33
R16FRSSP1GDB▲	R.series	33
R16FRSSP1GDG▲	R.series	33
R16FRSSP1GDGB▲	R.series	34
R16FRSSP1GDR▲	R.series	33
R16FRSSP1GDRB▲	R.series	34
R16FRSSP1GDRG▲	R.series	34
R16FRSSP1GRB▲	R.series	33
R16FRSSP1GRG_	R.series	33
R16FRSSP1GRGB▲	R.series	34
R16FRSSP1GRR▲	R.series	33
R16FRSSP1GRRB▲	R.series	34
R16FRSSP1GRRG▲	R.series	34
R16FRSSP1IZ	R.series	33
R16FRSSP1ZDB▲	R.series	33
R16FRSSP1ZDG▲	R.series	33
R16FRSSP1ZDGB▲	R.series	34
R16FRSSP1ZDR▲	R.series	33
R16FRSSP1ZDRB_	R.series	34
R16FRSSP1ZDRG▲	R.series	34
R16FRSSP1ZRB▲	R.series	33
R16FRSSP1ZRG▲	R.series	33
R16FRSSP1ZRGB▲	R.series	34
R16FRSSP1ZRR▲	R.series	33
R16FRSSP1ZRRB▲	R.series	34
R16FRSSP1ZRRG▲	R.series	34
R16FRNSPAG	R.series	32
R16FRNSTAG	R.series	32
R16FRSSP1G	R.series	33
R16FRSSP1GDB▲	R.series	33
R16FRSSP1GDG▲	R.series	33
R16FRSSP1GDGB▲	R.series	34
R16FRSSP1GDR▲	R.series	33
R16FRSSP1GDRB▲	R.series	34
R16FRSSP1GDRG▲	R.series	34
R16FRSSP1GRB▲	R.series	33
R16FRSSP1GRG▲	R.series	33
R16FRSSP1GRGB▲	R.series	34
R16FRSSP1GRR▲	R.series	33
R16FRSSP1GRRB▲	R.series	34
R16FRSSP1GRRG▲	R.series	34
R16FRSSP1IZ	R.series	33

Part numbers	series	Page
R16FFNSTAG	R.series	32
R16FFSSP1G	R.series	33
R16FFSSP1GDB▲	R.series	33
R16FFSSP1GDG▲	R.series	33
R16FFSSP1GDGB▲	R.series	34
R16FFSSP1GDR▲	R.series	33
R16FFSSP1GDRB▲	R.series	34
R16FFSSP1GDRG▲	R.series	34
R16FFSSP1GRB▲	R.series	33
R16FFSSP1GRG▲	R.series	33
R16FFSSP1GRGB▲	R.series	34
R16FFSSP1GRR▲	R.series	33
R16FFSSP1GRRB▲	R.series	34
R16FFSSP1GRRG▲	R.series	34
R16FFSSP1IZ	R.series	33
R16FFSSP1ZDB▲	R.series	33
R16FFSSP1ZDG▲	R.series	33
R16FFSSP1ZDGB▲	R.series	34
R16FFSSP1ZDR▲	R.series	33
R16FFSSP1ZDRB▲	R.series	34
R16FFSSP1ZDRG▲	R.series	34
R16FFSSP1ZRB▲	R.series	33
R16FFSSP1ZRG▲	R.series	33
R16FFSSP1ZRGB▲	R.series	34
R16FFSSP1ZRR▲	R.series	33
R16FFSSP1ZRRB▲	R.series	34
R16FFSSP1ZRRG▲	R.series	34
R16FFSSPAG	R.series	32
R16FFSSPAGDB▲	R.series	32
R16FFSSPAGDG▲	R.series	32
R16FFSSPAGDR▲	R.series	32
R16FFSSPAGRB▲	R.series	32
R16FFSSPAGRG▲	R.series	32
R16FFSSPAGRR▲	R.series	32
R16FFSSTAG	R.series	32
R16FRGSPAG	R.series	32
R16FRGSTAG	R.series	32
R16FRNSP1G	R.series	33
R16FRNSP1GDB▲	R.series	33
R16FRNSP1GDG▲	R.series	33
R16FRNSP1GDGB▲	R.series	34
R16FRNSP1GDR▲	R.series	33
R16FRNSP1GDRB▲	R.series	34
R16FRNSP1GDRG▲	R.series	34
R16FRNSP1GRB▲	R.series	33
R16FRNSP1GRG_	R.series	33
R16FRNSP1GRGB▲	R.series	34
R16FRNSP1GRR▲	R.series	33
R16FRNSP1GRRB▲	R.series	34
R16FRNSP1GRRG▲	R.series	34
R16FRNSP1IZ	R.series	33
R16FRNSP1ZDB▲	R.series	33
R16FRNSP1ZDG▲	R.series	33
R16FRNSP1ZDGB▲	R.series	34
R16FRNSP1ZDR▲	R.series	33
R16FRNSP1ZDRB_	R.series	34
R16FRNSP1ZDRG▲	R.series	34
R16FRNSP1ZRB▲	R.series	33
R16FRNSP1ZRG▲	R.series	33
R16FRNSP1ZRGB▲	R.series	34
R16FRNSP1ZRR▲	R.series	33
R16FRNSP1ZRRB▲	R.series	34
R16FRNSP1ZRRG▲	R.series	34
R16FRNSPAG	R.series	32
R16FRNSTAG	R.series	32
R16FRSSP1G	R.series	33
R16FRSSP1GDB▲	R.series	33
R16FRSSP1GDG▲	R.series	33
R16FRSSP1GDGB▲	R.series	34
R16FRSSP1GDR▲	R.series	33
R16FRSSP1GDRB▲	R.series	34
R16FRSSP1GDRG▲	R.series	34
R16FRSSP1GRB▲	R.series	33
R16FRSSP1GRG▲	R.series	33
R16FRSSP1GRGB▲	R.series	34
R16FRSSP1GRR▲	R.series	33
R16FRSSP1GRRB▲	R.series	34
R16FRSSP1GRRG▲	R.series	34
R16FRSSP1IZ	R.series	33

CONTENTS BY REFERENCE

Part numbers	Series	Page
R16FRSSP1ZDB ▲	R.series	33
R16FRSSP1ZDG ▲	R.series	33
R16FRSSP1ZDGB ▲	R.series	34
R16FRSSP1ZDR ▲	R.series	33
R16FRSSP1ZDRB ▲	R.series	34
R16FRSSP1ZDRG ▲	R.series	34
R16FRSSP1ZRB ▲	R.series	33
R16FRSSP1ZRG ▲	R.series	33
R16FRSSP1ZRGB ▲	R.series	34
R16FRSSP1ZRR ▲	R.series	33
R16FRSSP1ZRRB ▲	R.series	34
R16FRSSP1ZRRG ▲	R.series	34
R19DFASPAG	R.series	35
R19DFASTAG	R.series	35
R19DFGSPAG	R.series	35
R19DFGSTAG	R.series	35
R19DFNSPAG	R.series	35
R19DFNSTAG	R.series	35
R19DFSBSPAG	R.series	35
R19DFSBSTAG	R.series	35
R19DFSSPAG	R.series	35
R19DFSSTAG	R.series	35
R19FFASP3G	R.series	36
R19FFASP3Z	R.series	36
R19FFASPAG	R.series	35
R19FFASPAGDB ▲	R.series	36
R19FFASPAGDG ▲	R.series	36
R19FFASPAGDR ▲	R.series	36
R19FFASPAGRB ▲	R.series	36
R19FFASPAGRG ▲	R.series	36
R19FFASPAGRR ▲	R.series	36
R19FFASPAZDB ▲	R.series	36
R19FFASPAZDG ▲	R.series	36
R19FFASPAZDR ▲	R.series	36
R19FFASPAZRB ▲	R.series	36
R19FFASPAZRG ▲	R.series	36
R19FFASPAZRR ▲	R.series	36
R19FFAST3G	R.series	36
R19FFAST3Z	R.series	36
R19FFASTAG	R.series	35
R19FFASTAGDB ▲	R.series	36
R19FFASTAGDG ▲	R.series	36
R19FFASTAGDR ▲	R.series	36
R19FFASTAGRB ▲	R.series	36
R19FFASTAGRG ▲	R.series	36
R19FFASTAGRR ▲	R.series	36
R19FFASTAZDB ▲	R.series	36
R19FFASTAZDG ▲	R.series	36
R19FFASTAZDR ▲	R.series	36
R19FFASTAZRB ▲	R.series	36
R19FFASTAZRG ▲	R.series	36
R19FFASTAZRR ▲	R.series	36
R19FFGSPAG	R.series	35
R19FFGSTAG	R.series	35
R19FFNSPAG	R.series	35
R19FFNSTAG	R.series	35
R19FFSBSPAG	R.series	35
R19FFSBSTAG	R.series	35
R19FFSSP1GDB ▲	R.series	37
R19FFSSP1GDG ▲	R.series	37
R19FFSSP1GDGB ▲	R.series	37
R19FFSSP1GDR ▲	R.series	37
R19FFSSP1GDRB ▲	R.series	37
R19FFSSP1GDRG ▲	R.series	37
R19FFSSP1GRB ▲	R.series	37
R19FFSSP1GRG ▲	R.series	37
R19FFSSP1GRGB ▲	R.series	37
R19FFSSP1GRR ▲	R.series	37
R19FFSSP1GRRB ▲	R.series	37
R19FFSSP1GRRG ▲	R.series	37
R19FFSSP1ZDB ▲	R.series	37
R19FFSSP1ZDG ▲	R.series	37
R19FFSSP1ZDR ▲	R.series	37
R19FFSSP1ZDRB ▲	R.series	37
R19FFSSP1ZDRG ▲	R.series	37
R19FFSSP1ZDZB ▲	R.series	37
R19FFSSP1ZRB ▲	R.series	37
R19FFSSP1ZRG ▲	R.series	37
R19FFSSP1ZRR ▲	R.series	37

Part numbers	Series	Page
R19FFSSP1ZRRB ▲	R.series	37
R19FFSSP1ZRRG ▲	R.series	37
R19FFSSP1ZRZB ▲	R.series	37
R19FFSSP2GDB ▲	R.series	37
R19FFSSP2GDG ▲	R.series	37
R19FFSSP2GDGB ▲	R.series	37
R19FFSSP2GDR ▲	R.series	37
R19FFSSP2GDRB ▲	R.series	37
R19FFSSP2GDRG ▲	R.series	37
R19FFSSP2GRB ▲	R.series	37
R19FFSSP2GRG ▲	R.series	37
R19FFSSP2GRGB ▲	R.series	37
R19FFSSP2GRR ▲	R.series	37
R19FFSSP2GRRB ▲	R.series	37
R19FFSSP2GRRG ▲	R.series	37
R19FFSSP2ZDB ▲	R.series	37
R19FFSSP2ZDG ▲	R.series	37
R19FFSSP2ZDR ▲	R.series	37
R19FFSSP2ZDRB ▲	R.series	37
R19FFSSP2ZDRG ▲	R.series	37
R19FFSSP2ZDZB ▲	R.series	37
R19FFSSP2ZRB ▲	R.series	37
R19FFSSP2ZRG ▲	R.series	37
R19FFSSP2ZRR ▲	R.series	37
R19FFSSP2ZRRB ▲	R.series	37
R19FFSSP2ZRRG ▲	R.series	37
R19FFSSP2ZRRB ▲	R.series	37
R19FFSSP3G	R.series	36
R19FFSSP3Z	R.series	36
R19FFSSPAG	R.series	35
R19FFSSPAGDB ▲	R.series	36
R19FFSSPAGDG ▲	R.series	36
R19FFSSPAGDR ▲	R.series	36
R19FFSSPAGRB ▲	R.series	36
R19FFSSPAGRG ▲	R.series	36
R19FFSSPAGRR ▲	R.series	36
R19FFSSPAZDB ▲	R.series	36
R19FFSSPAZDG ▲	R.series	36
R19FFSSPAZDR ▲	R.series	36
R19FFSSPAZRB ▲	R.series	36
R19FFSSPAZRG ▲	R.series	36
R19FFSSPAZRR ▲	R.series	36
R19FFSST3G	R.series	36
R19FFSST3Z	R.series	36
R19FFSSTAG	R.series	35
R19FFSSTAGDB ▲	R.series	36
R19FFSSTAGDG ▲	R.series	36
R19FFSSTAGDR ▲	R.series	36
R19FFSSTAGRB ▲	R.series	36
R19FFSSTAGRG ▲	R.series	36
R19FFSSTAGRR ▲	R.series	36
R19FFSSTAZDB ▲	R.series	36
R19FFSSTAZDG ▲	R.series	36
R19FFSSTAZDR ▲	R.series	36
R19FFSSTAZRB ▲	R.series	36
R19FFSSTAZRG ▲	R.series	36
R19FFSSTAZRR ▲	R.series	36
R19FFSSTAZRG ▲	R.series	36
R19FFSSTAZRR ▲	R.series	36
R19FRASPAG	R.series	35
R19FRASTAG	R.series	35
R19FRGSPAG	R.series	35
R19FRNSTAG	R.series	35
R19FRSBSPAG	R.series	35
R19FRSBSTAG	R.series	35
R19FRSSPAG	R.series	35
R19FRSSTAG	R.series	38
R22FFSSPAGDB ▲	R.series	38
R22FFSSPAGDG ▲	R.series	38
R22FFSSPAGDR ▲	R.series	38
R22FFSSPAGMGB ▲	R.series	39
R22FFSSPAGMRB ▲	R.series	39
R22FFSSPAGMRG ▲	R.series	39
R22FFSSPAGRB ▲	R.series	38
R22FFSSPAGRG ▲	R.series	38
R22FFSSPAGRR ▲	R.series	38
R22FFSSPAZ	R.series	38
R22FFSSPAZDB ▲	R.series	38
R22FFSSPAZDG ▲	R.series	38

Part numbers	series	Family
R22FFSSPAZDR ▲	R.series	38
R22FFSSPAZRB ▲	R.series	38
R22FFSSPAZRG ▲	R.series	38
R22FFSSPAZRR ▲	R.series	38
S.12100.001	S.series	22
S.12100.211	S.series	22
S.12100.241	S.series	22
S.12150.001	S.series	22
S.12150.211	S.series	22
S.12150.241	S.series	22
S.16300.001	S.series	22
S.16300.211	S.series	22
S.16300.241	S.series	22
S.16350.001	S.series	22
S.16350.211	S.series	22
S.16350.241	S.series	22
SL.12100.001	S.series Lite	23
SL.12100.211	S.series Lite	23
SL.12100.241	S.series Lite	23
SL.12150.001	S.series Lite	23
SL.12150.211	S.series Lite	23
SL.12150.241	S.series Lite	23
SL.16300.001	S.series Lite	23
SL.16300.211	S.series Lite	23
SL.16300.241	S.series Lite	23
SL.16350.001	S.series Lite	23
SL.16350.211	S.series Lite	23
SL.16350.241	S.series Lite	23
W.04000.P01	W.series	26
W.0400X.016	W.series	26
W.0400X.038	W.series	26

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