



2023-2024 EDITION

PUSHBUTTON SWITCHES, MINIATURES, ROBUST IK10, VANDAL RESISTANT

LED INDICATORS VANDAL RESISTANT

SENSITIVE SWITCHES, CAPACITIVE & PIEZO TECHNOLOGY



switching experts

about KYNOPPE



Whatever your needs are, Kynoppe team, which has been operating for many years in the macro-market of devices switching and interfacing with the machine, offers you its extensive technological offer, its responsiveness, its flexibility and its strong field experience.

Kynoppe is much more than a distributor ... it is the key and preferred business, logistics and technological partner of renowned switching specialists (ITW Switches, Giovenzana, Tacthill, Interlink Electronics, Everswitch, VCC, CTI Electronics), pooling all their know-how in a single comprehensive and qualified global offer.

Kynoppe is much more than a supplier ... it is your technical interface for the design, customization, selection of the I.H.M. who will best meet your business imperatives for switching to serve your application.

to cut a long story,
Kynoppe truly is your *switching expert*.

KYNOPPE products



proven PRODUCTS for demanding applications



Many applications, such as aeronautics, Oil-and-Gas (extremely high temperature), nuclear (radiation resistance), access control, transportation or any dissipative electrical and electronic system of the heat, positioned closer to hot springs (energy converters, aircraft nozzles, furnaces and incinerators, ...) or on the deck of a ship in full storm ... require an H.M.I. accepting extreme constraints .

Components and solutions proposed by Kynoppe have been designed, tested and validated for these demanding applications, guaranteeing a high level of availability and compliance with the most stringent standards...

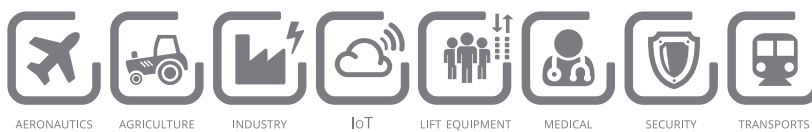


KYNOPPE mission

“

Whatever your market heart, the Kynoppe team **offers you** its *extended technological offer*, its *reactivity*, its *flexibility* and its *know-how* so that the switching is at the service of **your application**.

”



KYNOPPE phylosophy

To do this, Kynoppe puts at your disposal its know-how and the technical knowledge of its manufacturing partners: specific marking on a button, personalized backlighting, cabling and harness made to measure, individualized packaging, are all possibilities of adaptation of our standardized products to your needs.

Resolutely **REP'DESIGNERS**, at Kynoppe we do not just sell our products ... we imagine and co-develop them! Kynoppe and its industrial partners master all of their manufacturing processes via their vertical structures.

In addition, keen to respect and protect the environment, Kynoppe is committed to a sustainable development approach every day by implementing actions aimed at streamlining processes, reducing energy consumption and enhancing the value of energy. waste.

Finally, following the European regulations, all the components offered by Kynoppe meet the standards respectful of our environment such as RoHS & Weee or Reach.

THIS TRULY IS RESPONSIBILITY WITH A BIG R.



custom designed solutions

If your prerequisites require the development of a specific interface following your own specifications, Kynoppe and its partners have the skills and the ad-hoc tools to assist you in the development of any complete solution: the choice of the technology or technologies of switching to implement, up to the design of the HMI through the development of the possible software driving the whole;

In short, always present by your side to help you anticipate and innovate ...



U.DESIGN

FUNCTION OPTIMIZATION

CUSTOM ILLUMINATED LOGO

CUSTOM MARKING

PERSONALIZED BUTTON
COLOR OR GALVANIC TREAT-
MENT

HARNESS AND CABLING ON
REQUEST



U.DESIGN IN 5 STEPS

- 1 Kynoppe evaluates with you all of your needs, expectations and technical requirements. If it is not yet established, Kynoppe assists you in drafting the specifications.
- 2 The technical requirements are weighed and the Kynoppe team chooses with you the technology (s) that will animate your HMI solution. This first choice made, the specifications are sent to the design office.
- 3 The thinking and design of one or more initial assumptions takes place in 2 to 6 weeks depending on the complexity of the project.
- 4 Kynoppe presents the results of the studies; from the design to the cost structure through the manufacturing process. Possibly several options are presented to you.
- 5 Once the final solution is defined, prototyping ... then, once all the validated parameters, electrical, durability and resistance tests have been carried out, the series production can start after the F.A.I. (First Article Inspection).



PUSHBUTTON SWITCHES AND LED INDICATORS

Through its TACTHILL range, Kynoppe offers its customers a wide range of pushbuttons switches and LED indicators for panels: robust and shockproof to IK10, vandal resistant, or miniature interfaces; a wide choice of key colors and LED backlighting.

From a drilling diameter of 12 mm to the very wide 40 mm, most of the buttons proposed by Kynoppe are IP67.



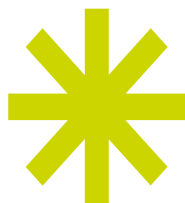
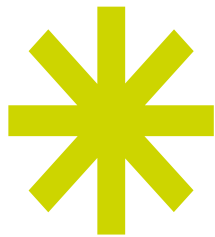


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VANDAL RESISTANT PUSHBUTTON SWITCHES • NONC • ILLUMINATED

DISTINCTIVE FEATURES

superbright LED illumination
great tactile feedback
NONC low profile pushbutton
IP67 - IK10

ELECTRICAL SPECIFICATIONS

Rated insulation voltage : 250 Vac

Max current : 5 A

Rated voltage		24V	110V	220V
Rated current	DC (50/60Hz)	Resistive load	2A	-
		Inductive load	-	0.5A
	AC	Resistive load	0.7A	0.1A
		Inductive load	-	-

Contact type : OFF-(ON) or OFF-ON, NONC or 2NO2NC form C

Initial contact resistance : 50mΩ max

Insulation resistance : 100 MΩ min, DC500V

Electrical life : 100.000 cycles at full load

Dielectric Strength : 1.000VAC, 60secs

ENVIRONMENTAL SPECIFICATIONS

Operating temperature : from -30°C to +55°C

Impact rating : IK10

Ingress protection : IP67

Compliant with IEC60947-5 / GB14048.5

MECHANICAL SPECIFICATIONS

Actuation force : 2-5 N

Travel : 2mm ±0,5

Mechanical life : 1.000.000 cycles

Materials :

Body : Stainless steel 304

Key : Stainless steel 316

Terminals : Copper plated gold

Contact : Silver tin oxide

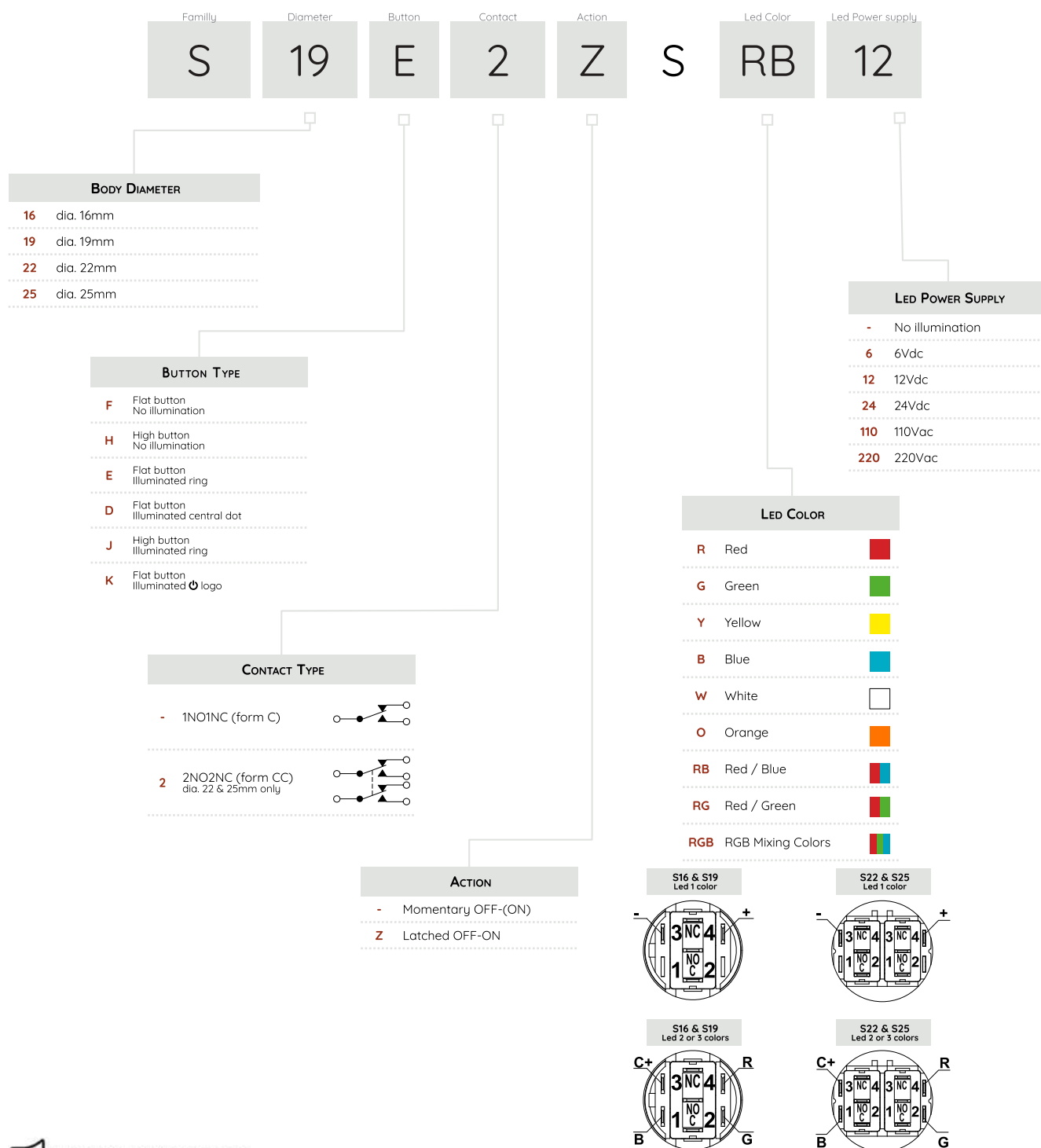
GENERAL SPECIFICATIONS

Installation diameter : from 16,5 to 25,5 mm

Panel thickness : from 0,75 to 4mm



BUILD YOUR PART NUMBER



ABOUT THIS RANGE

¹ Integrated protection resistor. Other voltages available on request.

All our pushbuttons are delivered with their washer and nicked plated brass hex. nut.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

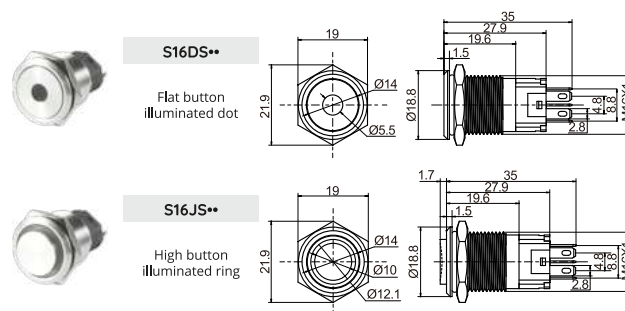
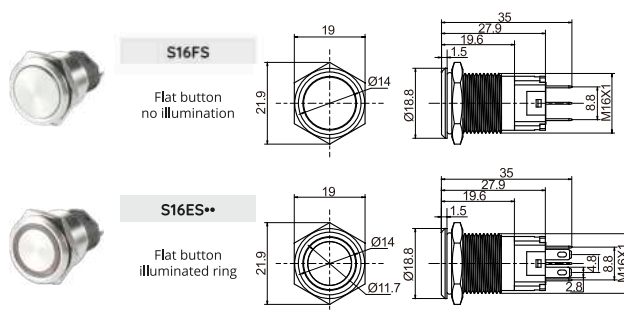
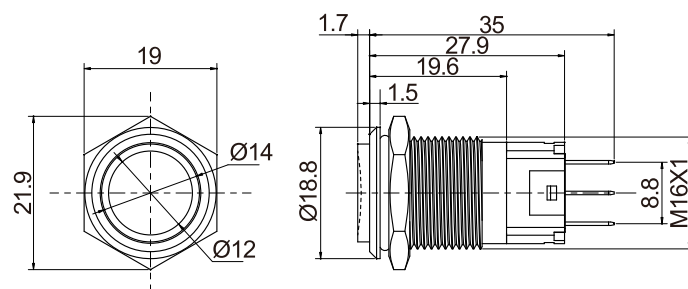
CONFIGURATION EXAMPLES

DIA.16MM



S16HZS

stainless, 1NO1NC alternate,
high button, no illumination

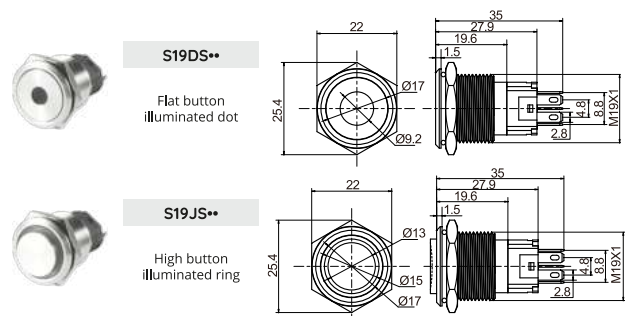
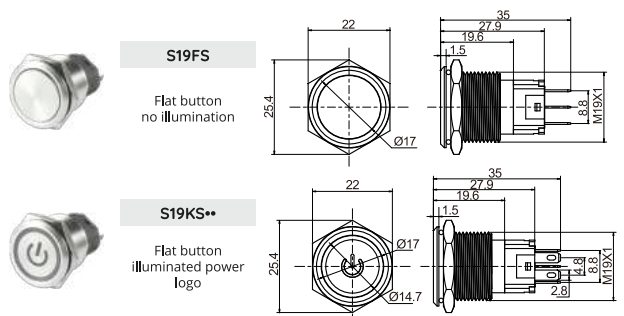
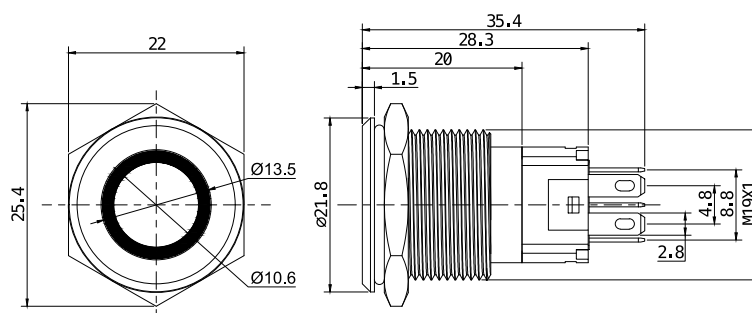


DIA.19MM



S19ESRGB•

stainless, 1NO1NC momentary,
flat button,
RGB illuminated ring

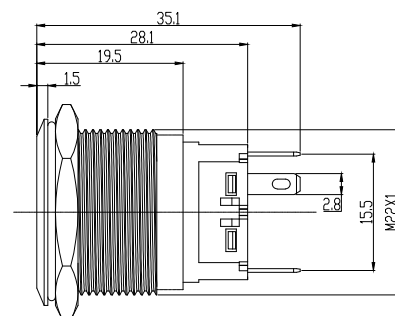
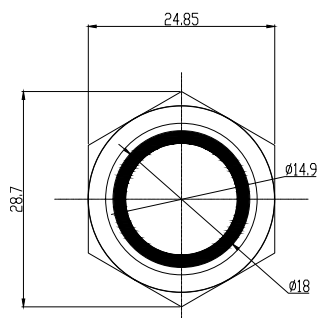


DIA.22MM



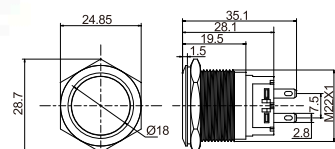
S22EZS••

stainless, 1NO1NC maintained,
flat button
illuminated ring



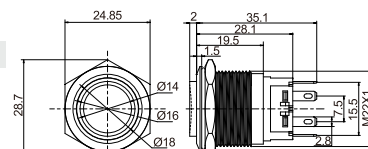
S22FS

Flat button
no illumination



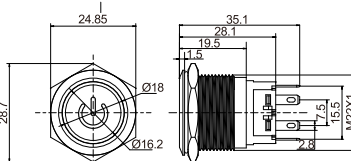
S22JS••

High button
illuminated ring



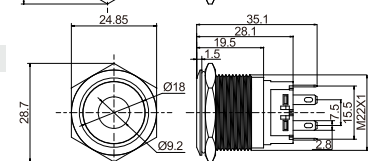
S22KS••

Flat button
illuminated power
logo



S22DS••

Flat button
illuminated dot

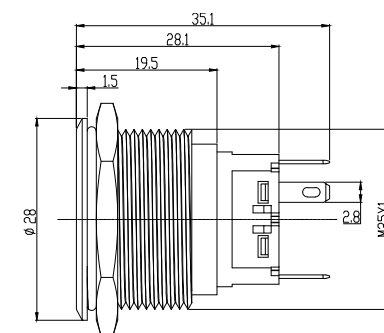
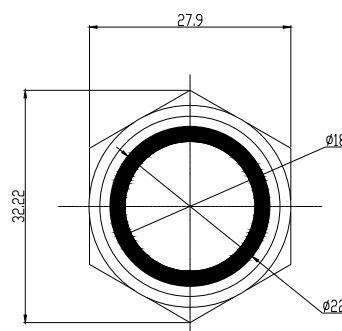


DIA.25MM



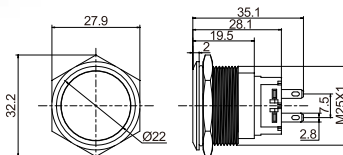
S25ES••

stainless, 1NO1NC momentary,
flat button
illuminated ring



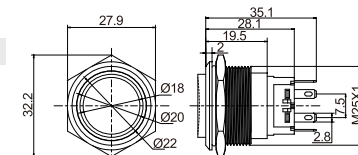
S25FS

Flat button
no illumination



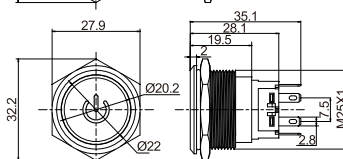
S25HS••

High button
illuminated ring



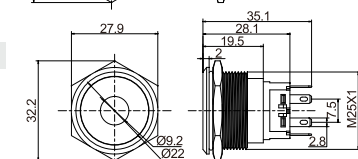
S25KS••

Flat button
illuminated power
logo



S25DS••

Flat button
illuminated dot






ACCESSORIES

QUICK CONNECTOR

Wire leads characteristics : stranded section 1,5mm²



		S16 / S19	S22 / S25	
		1NO1NC	1NO1NC	2NO2NC
LED Colors	No ILLUMINATION	SAC1-3P-15	SAC2-3P-15	SAC2-5P-15
		SAC1-5P-15	SAC2-5P-15	SAC2-8P-15
		SAC1-6P-15	SAC2-6P-15	SAC2-9P-15
		SAC1-7P-15	SAC2-7P-15	SAC2-10P-15

INGRESS PROTECTION SILICON CAP



80-599217

Silicon cover cap for additionnal ingress protection **dia. 16mm**
(compatible with : SOAV116, SOAV2, ALFA16, ORION16, SIRIUS16)

80-599219

Silicon cover cap for additionnal ingress protection **dia. 19mm**
(compatible with : SOAV119, SOAV3, ALFA19, ORION19, SIRIUS19, 48M, 76-9510)

80-599222

Silicon cover cap for additionnal ingress protection **dia. 22mm**
(compatible with : SOAV122, SOAV4, ALFA22, ORION22, SIRIUS22)

80-599225

Silicon cover cap for additionnal ingress protection **dia. 25mm**
(compatible with : SOAV5, ALFA25, ORION25, SIRIUS25)

HIGH CURRENT SECURITY PUSHBUTTON SWITCH • NO • ILLUMINATED



DISTINCTIVE FEATURES

High current switching : till 20Amps
unparalleled tactile feedback
till 2NO form A
IP67

ELECTRICAL SPECIFICATIONS

Rated Insulation Voltage : AC 250V

Heating Current : 20A

Rated voltage		DC 12V	DC 24V	AC 250V
Rated current	Resistive load	dia16/19 : 18A dia.22/25 : 20A	15A	15A
	Inductive load	5A	4A	4A

Contact type : OFF-(ON) or OFF-ON

Initial contact resistance : 50mΩ max

Insulation resistance : 100 MΩ min, DC500V

Electrical lifecycle : 100.000 cycles at full load

Dielectric strength : 2000VAC, 60secs

ENVIRONMENTAL SPECIFICATIONS

Operating temperature : -30°C to +80°C

Impact rating : IK10

Ingress protection rating : IP67

MECHANICAL SPECIFICATIONS

Operating force : 11 N

Travel : from 1,8 to 3,5 mm

Materials :

- Body : Stainless steel 304
- Button : Stainless steel 316
- Pins : nikked H65
- Contact : Silver

Mechanical lifecycle : 1.000.000 cycles

GENERAL SPECIFICATIONS

Cutout : from 16,5 to 25,5 mm

Panel thickness : from 0,75 to 4mm




BUILD YOUR PART NUMBER

Series	Cutout	Button	Contact	Action		Led color	Led PowerSupply
OR	22	E	22	Z	S	RB	12


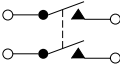
CUTOUT

- 16 dia. 16mm
- 19 dia. 19mm
- 22 dia. 22mm
- 25 dia. 25mm

BUTTON TYPE

- F Flush button
No illumination
- E Flush button
Illuminated ring
- K Flush button
Illuminated Logo 










CONTACT TYPE

- 1NO 
- 2 2NO
dia. 22 and 25mm only 

ACTION TYPE

- Momentary OFF-(ON)
- Z Maintained OFF-ON


LED COLOR

- R Red 
- G Green 
- Y Yellow 
- B Blue 
- W White 
- O Orange 
- RB Red / Blue 
- RG Red / Green 
- RGB RGB Mixing Colors 

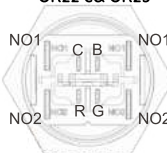
LED POWER SUPPLY

- No Led
- 6 6Vdc
- 12 12Vdc
- 24 24Vdc
- 110 110Vac
- 220 220Vac

OR16 & OR19



OR22 e& OR25



ABOUT THIS RANGE

¹ Integrated protection resistor. Other voltages available on request.

All our pushbuttons are delivered with their washer and nicked plated brass hex. nut.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

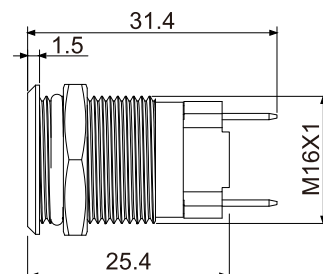
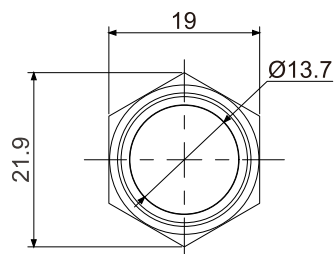
CONFIGURATION EXAMPLES

DIA.16MM



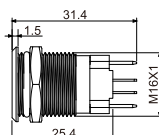
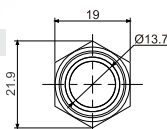
OR16FS

Stainless, 1NO1NC momentary
flat button, no illumination



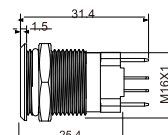
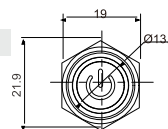
OR16ES

Flat button
illuminated Ring



OR16KS

Flat button
illuminated power
logo

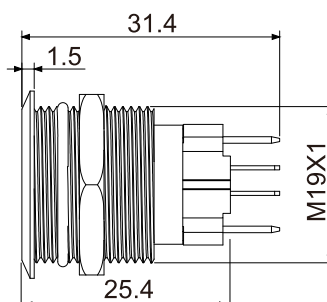
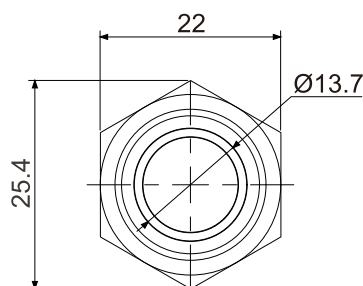


DIA.19MM



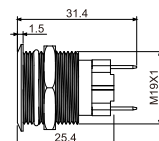
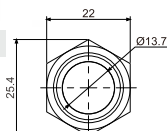
OR19ESRGB

stainless, 1NO momentary,
flat button,
RGB illuminated ring



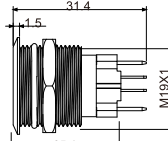
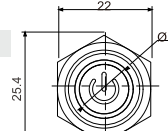
OR19FS

Flat button
no illumination



OR19KS

Flat button
illuminated power
logo

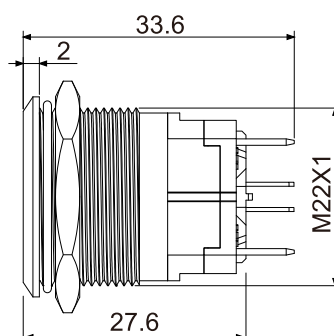
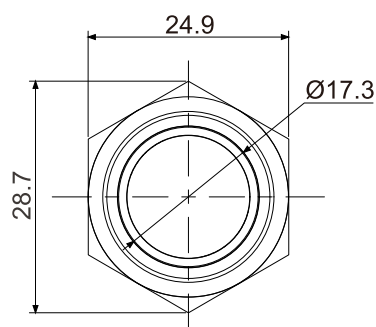


DIA.22MM



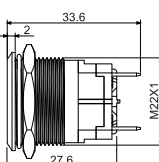
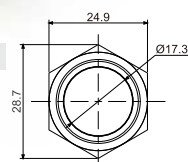
OR22EZS

stainless, 1NO alternate,
flat button,
illuminated ring



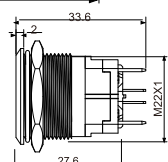
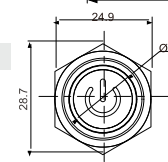
OR22FS

Flat button
no illumination



OR22KS

Flat button
illuminated power
logo

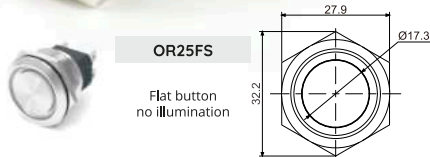
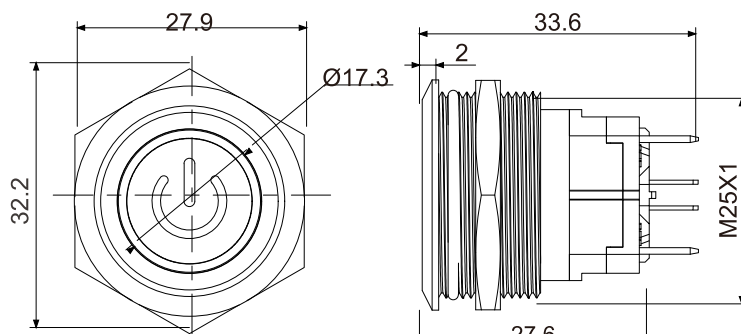


DIA.25MM



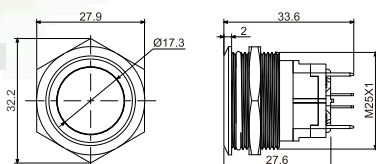
OR25KS••

stainless, 1NO momentary,
flat button,
illuminated power logo



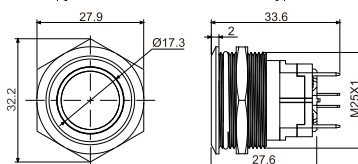
OR25FS

Flat button
no illumination



OR25ES••

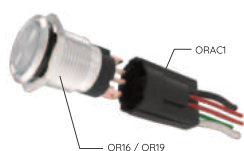
Flat button
illuminated ring



ACCESSORIES

QUICK CONNECTOR

Wire leads characteristics : stranded section 1,5mm²



		OR16 / OR19		OR22 / OR25	
		1 NO		1 NO	2NO
LED Colors	No ILLUMINATION	ORAC1-2P-15		ORAC2-2P-15	ORAC2-4P-15
		ORAC1-4P-15		ORAC2-2P2P-15	ORAC2-4P2P-15
		ORAC1-5P-15		ORAC2-2P3P-15	ORAC2-4P3P-15
		ORAC1-6P-15		ORAC2-2P4P-15	ORAC2-4P4P-15

⚠ Customized wires length on request

cablage haute couture



LOW PROFILE PUSHBUTTON SWITCHES



DISTINCTIVE FEATURES

extra-low profile

low travel

LED RGB illuminated versions

2A @ 36 Vdc

specific wiring & marking upon request

ELECTRICAL SPECIFICATIONS

Max voltage : 36 Vdc

Max current/voltage with resistive load :
2 A @ 36Vdc

Initial contact resistance : 50 mΩ max

Insulation resistance : 120 MΩ mini

Electrical life : 200.000 cycles at full load

Dielectric strength : 2000 VAC, 50Hz, 50 seconds

LED voltage : see *Build your part number* section

LED typical life : 40.000 hours

ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -30°C to +55°C

Ingress Protection IP67 - frontpanel

Vibrations resistance : 10 to 55Hz, amplitude 1.2mm p-p

MECHANICAL SPECIFICATIONS

Actuation force : 4 Newtons ±1 N

Travel : 0.5mm ±0.1mm

Mechanical life : 1.000.000 cycles minimum

Switchbase material : PA66

Body material : Stainless steel

Button material : Stainless steel

Lugs material : copper tin plating

GENERAL SPECIFICATIONS

Installation diameter : *Build your part number* section

Hand soldering : 260°C max. during 3 seconds



BUILD YOUR PART NUMBER

Family	Diameter	Button	Connection	Material	Led Color	Power Supply
A	19	E	J	S	B	6

DIAMETER / CONTACT TYPE

12	dia. 12mm / form X
16	dia. 16mm / form X
19	dia. 19mm / form X
22	dia. 22mm / form X
25	dia. 25mm / form X
30	dia. 30mm / form X

LED POWER SUPPLY

-	No Illumination
3	3V
6	6V
12	12V
24	24V

BUTTON TYPE

F	Flat Button No Illumination
H	High Button No Illumination
E	Flat Button Illuminated Ring
J	High Button Illuminated Ring
C	Custom design ¹

MATERIAL

S	Stainless steel (std.)
A	Black anodised aluminum

CONNECTION

J	Solder Terminals
C	Connector ²
F	Wire leads ³

LED COLOR

R	Red	
G	Green	
Y	Yellow	
B	Blue	
W	White	
O	Orange	
RB	Red / Blue	
RG	Red / Green	
RGB	Red / Green/ Blue	

ALFA Led 1 color

ALFA Led 2 or 3 colors

À PROPOS DE CETTE SÉRIE

¹ U.DESIGN service: custom button design upon request, custom marking upon request.

² U.DESIGN service: custom wiring and harness upon request.

³ Only available for diameters 19mm, 22mm and 25mm.

⁴ Typical current: 20mA - Resistor is internal. Other voltages available on request.

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

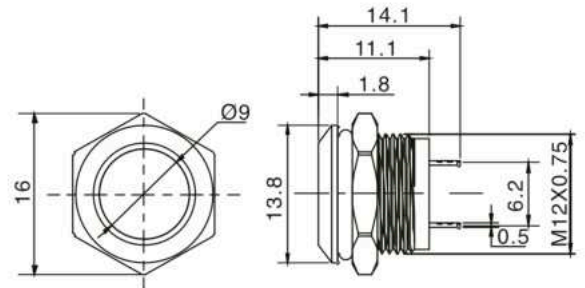
CONFIGURATION EXAMPLES

DIA.12MM - FLAT BUTTON - NON ILLUMINATED



A12FJS

stainless steel, momentary, solder terminals

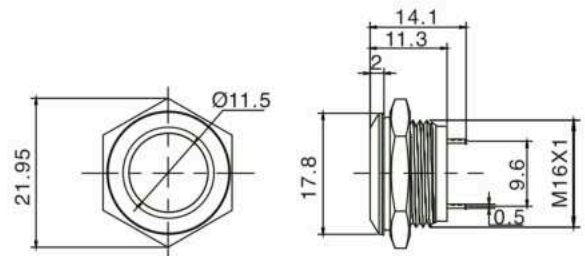


DIA.16MM - FLAT BUTTON - NON ILLUMINATED



A16FJS

stainless steel, momentary, solder terminals

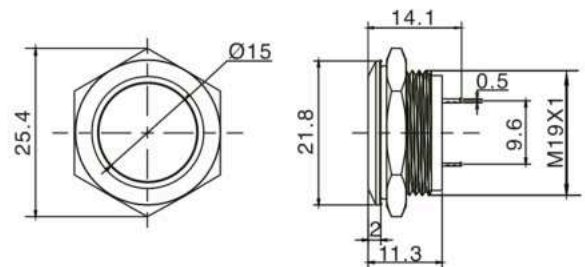


DIA.19MM - FLAT BUTTON - NON ILLUMINATED



A19FJS

stainless steel, momentary, solder terminals

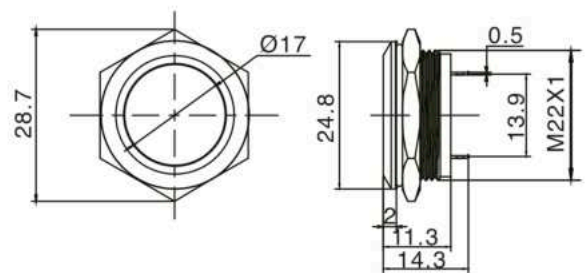


DIA.22MM - FLAT BUTTON - NON ILLUMINATED



A22FJS

stainless steel, momentary, solder terminals

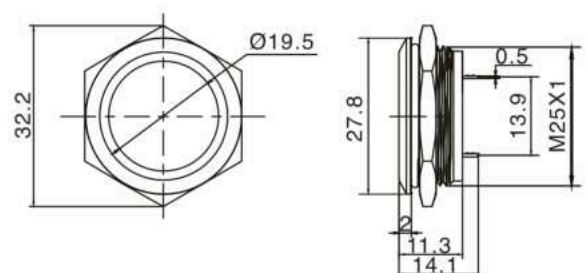


DIA.25MM - FLAT BUTTON - NON ILLUMINATED



A25FJS

stainless steel, momentary, solder terminals



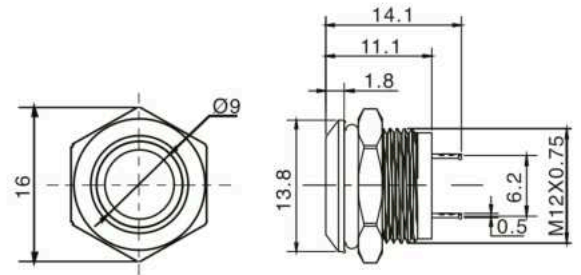
DIA.12MM - FLAT BUTTON - ILLUMINATED



A12EJS••

stainless steel, momentary, solder terminals

• please choose LED color and voltage in Build your part number section,



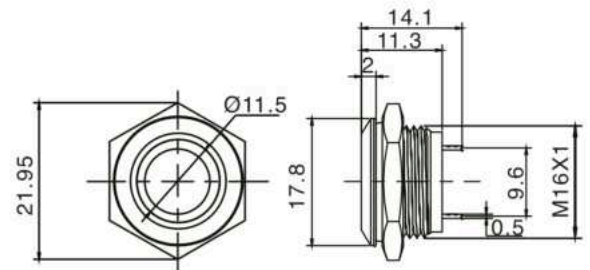
DIA.16MM - FLAT BUTTON - ILLUMINATED



A16EJS••

stainless steel, momentary, solder terminals

• please choose LED color and voltage in Build your part number section,



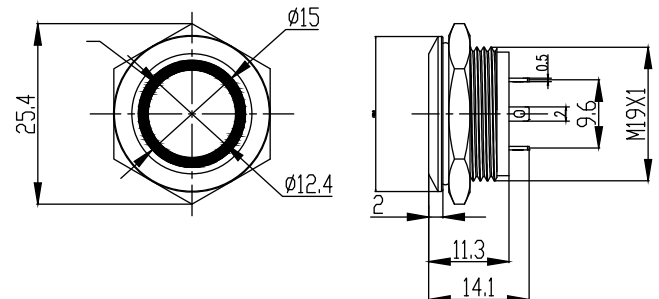
DIA.19MM - FLAT BUTTON - ILLUMINATED



A19EJS••

stainless steel, momentary, solder terminals

• please choose LED color and voltage in Build your part number section,



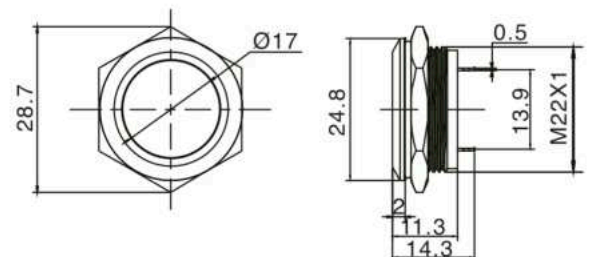
DIA.22MM - FLAT BUTTON - ILLUMINATED



A22EJS••

stainless steel, momentary, solder terminals

• please choose LED color and voltage in Build your part number section,



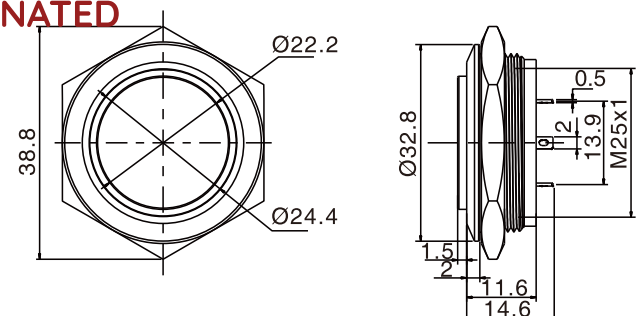
DIA.30MM - HIGH ROUND BUTTON - ILLUMINATED



A30JJS••

stainless steel, momentary, solder terminals

• please choose LED color and voltage in Build your part number section,



METAL PUSHBUTTON SWITCHES • DIA. 16MM

DISTINCTIVE FEATURES

modern & compact design

IP67

Illuminated versions

momentary or latched action

highly versatile



ELECTRICAL SPECIFICATIONS

Max current with resistive load : 2A / 36Vdc

Electrical lifecycle :

Momentary action : 500.000 cycles at full load

Alternate : 100.000 cycles at full load

Insulation resistance : 1 GΩ mini, DC500V

Dielectrical strength : 2000V RMS

Initial contact resistance : 50mΩ max

Contact type : NO

Led typical lifespan : 40.000 hours

Led max current : 20mA

MECHANICAL SPECIFICATIONS

Actuation force : 4,5 Newtons ±1,5N

Travel : 2 mm ±0,2mm

Contact bounce : 10ms

Mechanical lifecycle : 1.000.000 cycles

Materials :

Contact base : PBT - UL94V0

Contact : silver alloy

Body : aluminum alloy

Key : aluminum alloy

Terminals : gold plated copper

Fils : stranded AWG20, 0,6mm² UL approved

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range : -20°C à +70°C

Protection degree : IP67

IEC60947-5-1 compliant

GENERAL SPECIFICATIONS

Typical installation size : 16 mm

Max. panel thickness : 8,00 mm

Max. torque applied to the nut : 11,54 Kg.f/cm

Soldering profile : 300°C max. for 5 seconds



METAL PUSHBUTTON SWITCHES • DIA. 16MM

BUILD YOUR PART NUMBER

EA 16 E Z J A2 B 12

INSTALLATION DIAMETER

16 Dia. 16 mm, IP67

Button Version

E Domed, illuminated ring
P Domed, Power-On illuminated logo
H High-round, no illumination

ACTIONNEMENT

- Momentané
Z Maintenu

CONNECTION

J Solder terminals
F1 Soldered wires 500mm¹

MATERIAL

A Black anodized aluminum
A2 Neutral anodized aluminum

LED COLOR

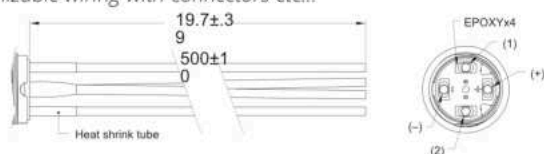
- No illumination
R Red
G Green
Y Yellow
B Blue
W White
RG Red & Green
RB Red & Blue
BW Blue & White
RGB Red/Green/Blue

LED POWER SUPPLY

- No illumination
3 3 Vdc (without resistor)
6 6 Vdc (180 Ω)
12 12 Vdc (470 Ω)
24 24 Vdc (1000 Ω)

ABOUT THIS RANGE

¹ Fully customizable wiring with connectors etc...



Non-LED

DESCRIPTION	WIRE COLOR
TERMINAL 1	BLACK
TERMINAL 2	BLACK

With LED

DESCRIPTION	WIRE COLOR
TERMINAL 1	BLACK
TERMINAL 2	BLACK
LED+	RED
LED-	GREEN

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

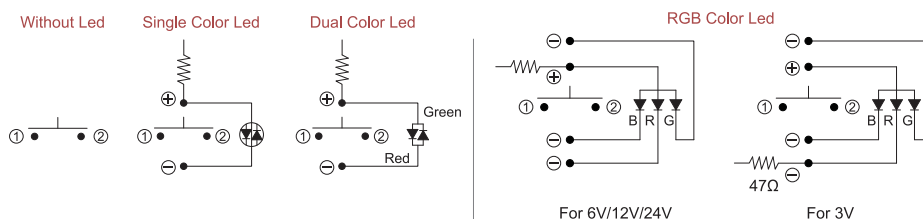
FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@kynoppe.com



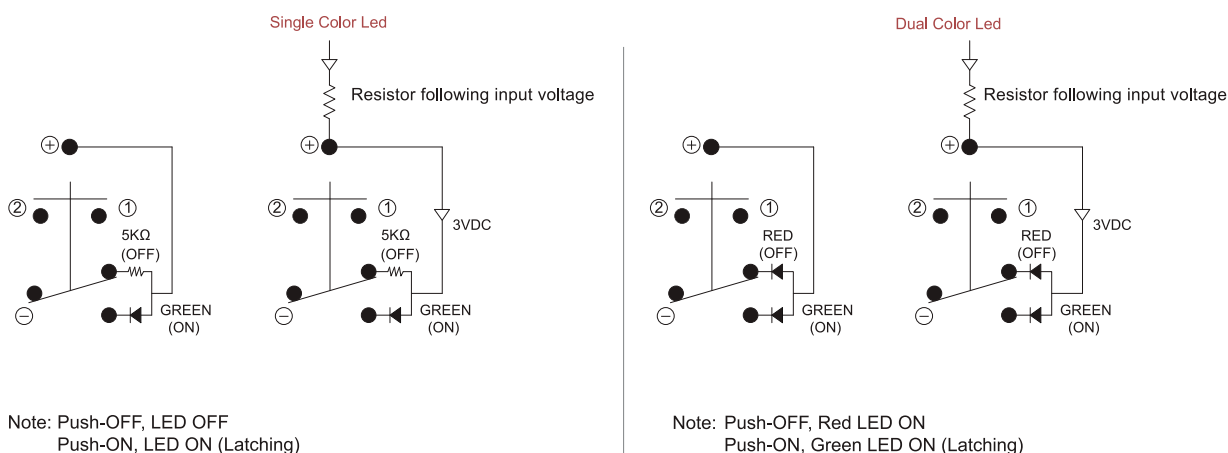
METAL PUSHBUTTON SWITCHES • DIA. 16MM

ELECTRICAL SCHEMES

MOMENTARY VERSION



ALTERNATE VERSION



CONFIGURATION EXAMPLES

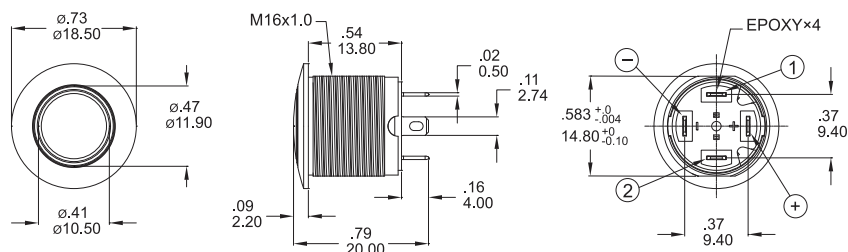
DOMED BUTTON - ILLUMINATED - NO - MOMENTARY



EA16EJA2••

Neutral anodized aluminum,
momentary, solder terminals

* please choose LED color and voltage in Build your part number section,



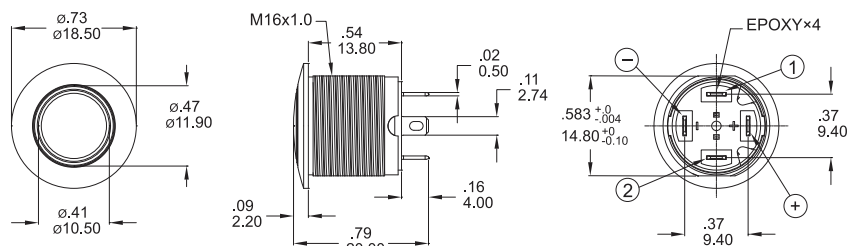
DOMED BUTTON - ILLUMINATED - NO - MOMENTARY



EA16EJA••

Black anodized aluminum,
momentary, solder terminals

* please choose LED color and voltage in Build your part number section,





METAL PUSHBUTTON SWITCHES • DIA. 16MM

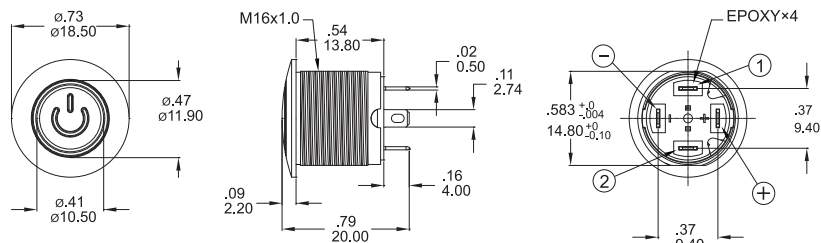
DOMED BUTTON - ILLUMINATED LOGO - NO - MOMENTARY



EA16PJA2

Black anodized aluminum,
momentary, solder terminals

* please choose LED color and voltage in Build your part number section,

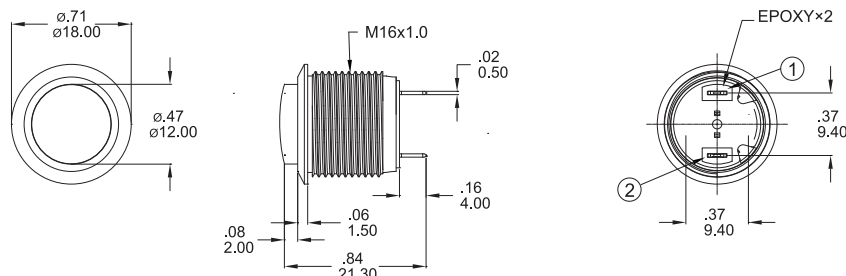


HIGH ROUND BUTTON - NON ILLUMINATED - NO - MOMENTARY



EA16HJA2

Black anodized aluminum,
momentary, solder terminals



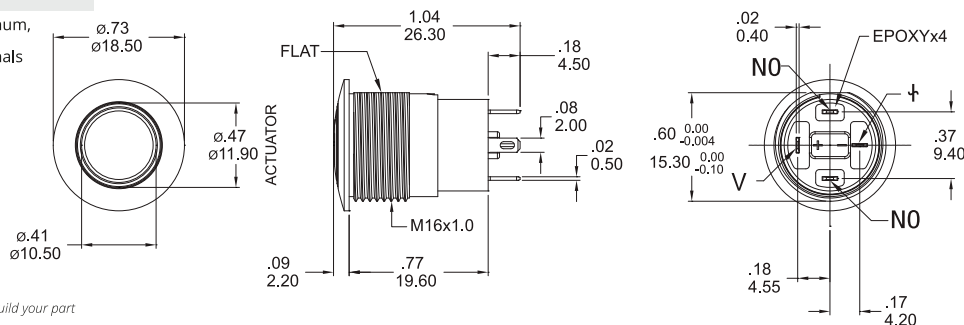
DOMED BUTTON - ILLUMINATED RING - NO - ALTERNATE



EA16EZJA2

Natural anodized aluminum,
alternate, solder terminals

* please choose LED color and voltage in Build your part number section,



SECURITY PUSHBUTTON SWITCHES • Ø12MM • NO • LED ILLUMINATED

🏆 DISTINCTIVE FEATURES

compact size

excellent tactile feedback

LED illuminated versions

momentary or latched

NO contact

3A @ 220 V

specific wiring upon request

specific marking upon request



⚡ ELECTRICAL SPECIFICATIONS

Max voltage : 250 V

Max current/voltage with resistive load :
2 A @ 220Vac / 2A @ 24 Vdc

Initial contact resistance : 50 mΩ max

Insulation resistance : 1000 MΩ mini at 500Vdc

Electrical life : 100.000 cycles at full load

Dielectric strength : 1000 VAC, 50Hz, 50 seconds

LED voltage : see *Build your part number* section

LED typical life : 40.000 hours

☀ ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -25°C to +55°C

Ingress Protection to IP65 or IP67 - frontpanel

Compliant with IEC60947-5-1 standard

Compliant with GB14048.5 standard

⚙ MECHANICAL SPECIFICATIONS

Actuation force : from 2 to 5 Newtons

Travel : from 1.5mm to 2.5mm

Mechanical life : 1.000.000 cycles minimum

Switchbase material : PC

Body material : see *Build your part number* section

Button material : see *Build your part number* section

Lugs material : gold plated copper

Contact material : gold plated silver

≡ GENERAL SPECIFICATIONS

Typical drilling diameter : 12.5mm

Panel thickness : 10mm max.

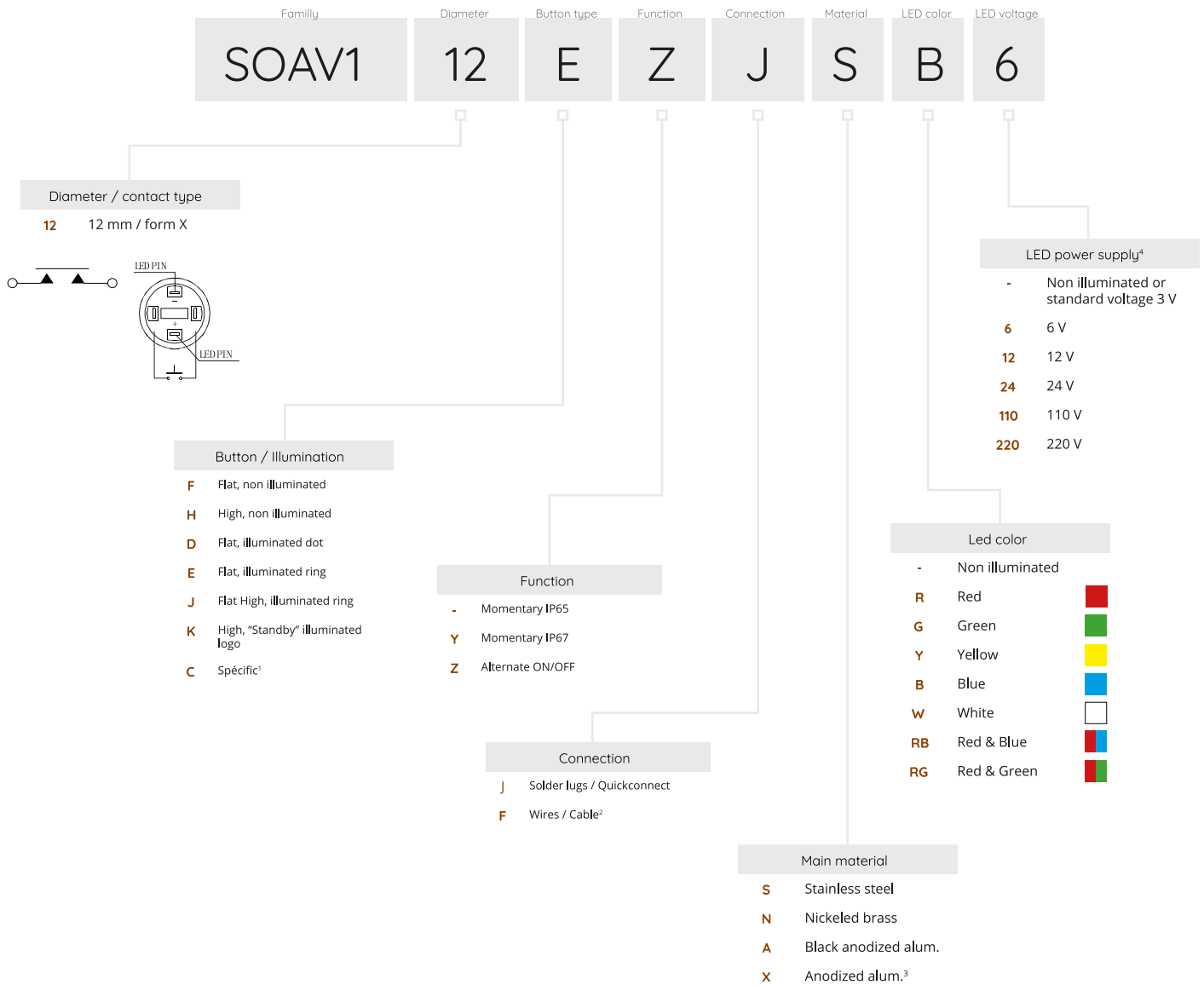
Minimum pitch for matrix installation : 20 x 20 mm

Hand soldering : 300°C max. during 5 seconds

SOAV112 series


SECURITY PUSHBUTTON SWITCHES • Ø12MM • NO • LED ILLUMINATED

BUILD YOUR PART NUMBER



ABOUT THIS SERIES

¹  U.DESIGN service: custom button design upon request, custom marking upon request.

²  U.DESIGN service : custom wiring and harness upon request.

³ Anodized aluminum with custom color upon request and subject to MOQ.

⁴ Standard LED power-supply : 3 V. For options 6, 12, 24, 110 et 220 V an external resistor to be soldered is supplied.

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@kynoppe.com

SOAV112 series

SECURITY PUSHBUTTON SWITCHES • Ø12MM • NO • LED ILLUMINATED

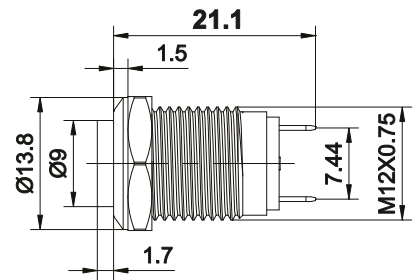
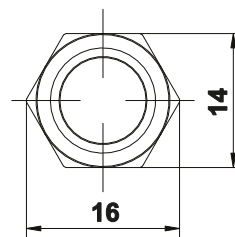
CONFIGURATION EXAMPLES

FLAT BUTTON - NON ILLUMINATED - 1NO



SOAV112FJS

stainless steel, momentary

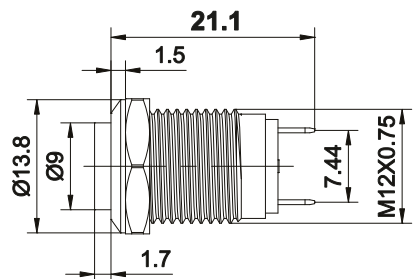
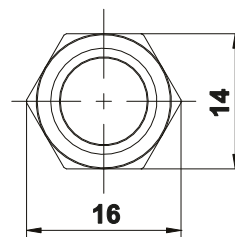


HIGH BUTTON - NON ILLUMINATED - 1NO



SOAV112HJS

stainless steel, momentary



FLAT BUTTON - ILLUMINATED - 1NO

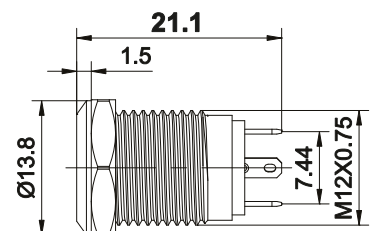
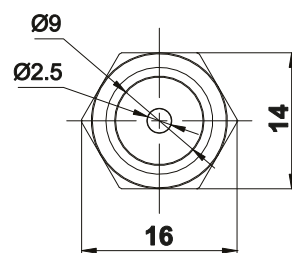


SOAV112DJS••

stainless steel, momentary, illuminated dot

SOAV112EJA••

black alum., momentary, illuminated ring



* please choose LED color and voltage in Build your part number section, when LED is off, ring is without color

SOAV112 series

SECURITY PUSHBUTTON SWITCHES • Ø12MM • NO • LED ILLUMINATED

HIGH BUTTON - ILLUMINATED RING - 1NO



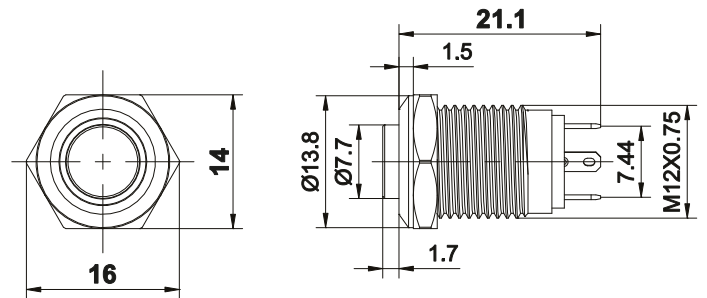
SOAV112JJA••

black alum., momentary, illuminated ring

SOAV112JJS••

stainless steel, momentary - illuminated ring

* please choose LED color and voltage in Build your part number section, when LED is off, ring is without color



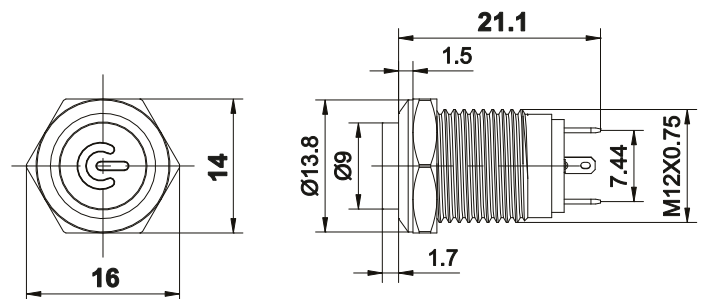
HIGH BUTTON - ILLUMINATED LOGO ⏻ - 1NO



SOAV112KJS••

stainless steel, momentary

* please choose LED color and voltage in Build your part number section, when LED is off, logo is without color

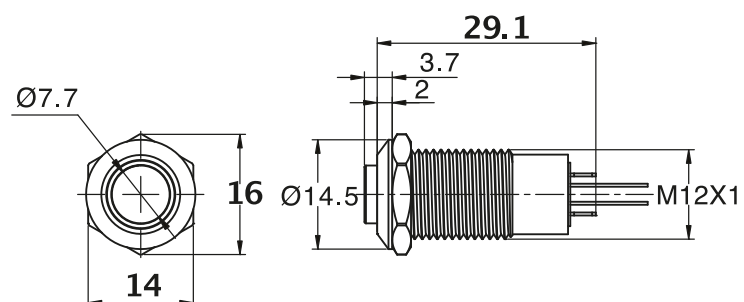


HIGH BUTTON ALTERNATE - ILLUMINATED - 1NO

SOAV112JZJS••

stainless steel, alternate ON/OFF - illuminated ring

* please choose LED color and voltage in Build your part number section, when LED is off, ring is without color



SECURITY PUSHBUTTON SWITCHES • Ø16MM • NO • LED ILLUMINATED

🏆 DISTINCTIVE FEATURES

compact size
excellent tactile feedback
LED illuminated versions
momentary
NO contact
3A @ 220 V
specific wiring upon request
custom illuminated logo upon request



⚡ ELECTRICAL SPECIFICATIONS

Max voltage : 250 V
Max current/voltage with resistive load :
3 A @ 220Vac / 5A @ 24 Vdc
Initial contact resistance : 50 mΩ max
Insulation resistance : 1000 MΩ mini at 500Vdc
Electrical life : 100.000 cycles at full load
Dielectric strength : 1000 VAC, 50Hz, 50 seconds
LED voltage : see *Build your part number* section
LED typical life : 40.000 hours

☀ ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -30°C to +85°C
Non illuminated versions are IK10 compliant
Ingress Protection to IP67 - frontpanel
Compliant with IEC60947-5-1 standard
Compliant with GB14048.5 standard

⚙ MECHANICAL SPECIFICATIONS

Actuation force : from 2 to 5 Newtons
Travel : from 1.5mm to 2.5mm
Mechanical life : 1.000.000 cycles minimum
Switchbase material : PA66G30
Body material : see *Build your part number* section
Button material : see *Build your part number* section
Lugs material : gold plated copper
Contact material : silver plated

≡ GENERAL SPECIFICATIONS

Typical drilling diameter : 16.5mm
Panel thickness : 12mm max.
Minimum pitch for matrix installation : 24 x 24 mm
Hand soldering : 300°C max. during 5 seconds

SOAV116 series


SECURITY PUSHBUTTON SWITCHES • Ø16MM • NO • LED ILLUMINATED

BUILD YOUR PART NUMBER

Family	Diameter	Button	Connection	Material	tri-color Led Colors			Led Power
SOAV1	16	B	Ø	S	Ø	-	-	Ø

Diameter / contact type

16 16 mm / form X



Button / Illumination

F Flat, non illuminated

X Extra-large Flat, non illuminated

H High, non illuminated

B Domed, non illuminated

D Flat, illuminated dot

E Flat, illuminated ring

M "Flush", illuminated ring

J High, illuminated ring

K Stand-by illuminated logo

C Specific¹

Connection

Ø Screw terminals

J Solder lugs / Quickconnect

F Wires / Cable²

Main material

S Stainless steel

N Nicked Brass

A Black anodized alum.

X Anodized alum.³

LED power supply⁵

Ø Non illuminated or standard voltage 3 V

6 6 V

12 12 V

24 24 V

110 110 V

220 220 V

Led Colors⁴

Ø Non illuminated

R Red

G Green

Y Yellow


B Blue

W White

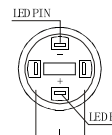
O Orange

RB Red/Blue

RG Red/Green

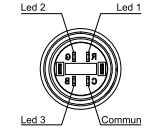


LED PIN



1 or 2 colors


Led 2 **Led 1**



3 colors

ABOUT THIS SERIES

¹  U.DESIGN service: custom button design upon request, custom marking upon request.

²  U.DESIGN service: custom wiring and harness upon request.

³ Anodized aluminum with custom color upon request and subject to MOQ.

⁴ Led Colors :

- for 1 or 2 colors version, please select colors from the list .For bi-color Leds (RG or RB), color change is operated with LED polarity swapping.

- for 3 colors version, select 3 desired colors from the list. Common power supply is made through the Cathod.

⁵ Standard LED power-supply : 3 V. For options 6, 12, 24, 110 et 220 V an external resistor to be soldered is supplied.

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

SOAV116 series

SECURITY PUSHBUTTON SWITCHES • Ø16MM • NO • LED ILLUMINATED

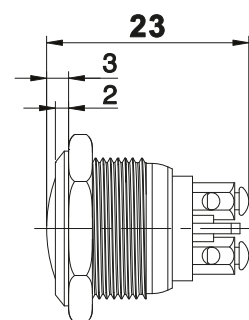
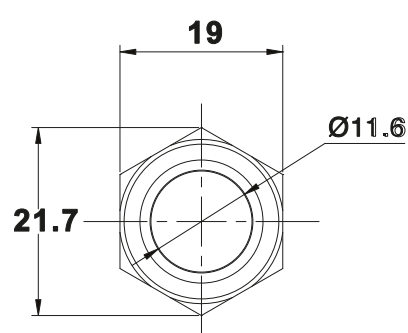
CONFIGURATION EXAMPLES

DOMED BUTTON - NON ILLUMINATED - SCREW TERMINALS



SOAV116B0S00

stainless steel, momentary

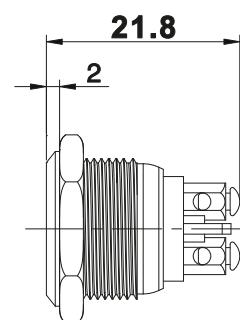
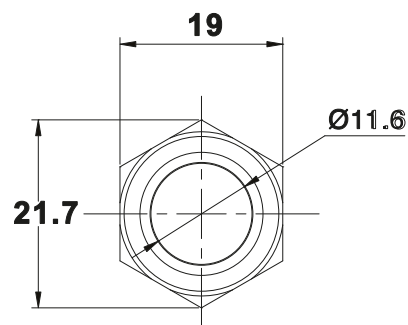


FLAT BUTTON - NON ILLUMINATED - SCREW TERMINALS



SOAV116F0S00

stainless steel, momentary

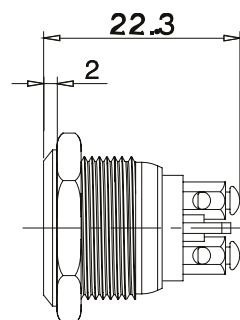
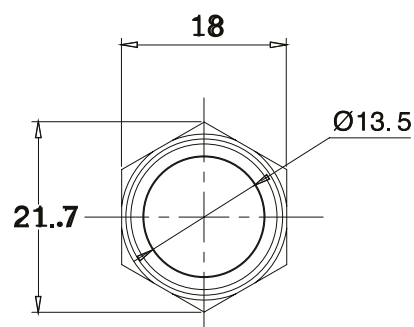


EXTRA-LARGE FLAT BUTTON - NON ILLUMINATED - SCREW TERMINALS



SOAV116X0S00

stainless steel, momentary



SOAV116 series

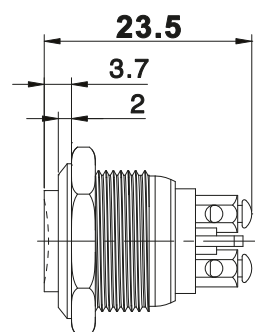
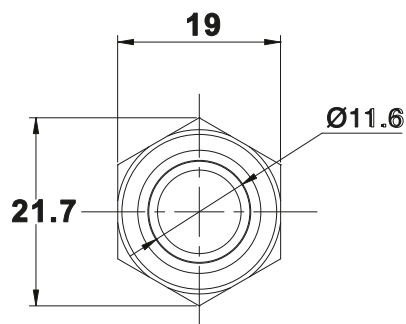
SECURITY PUSHBUTTON SWITCHES • Ø16MM • NO • LED ILLUMINATED

HIGH BUTTON - NON ILLUMINATED - SCREW TERMINALS



SOAV116H0S00

stainless steel, momentary



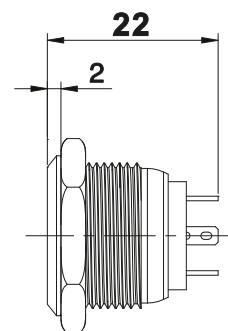
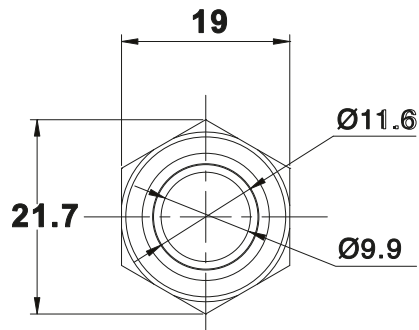
FLAT BUTTON - ILLUMINATED RING - SOLDER LUGS



SOAV116EJA00

black anodized alum., momentary

* please choose LED color and voltage in Build your part number section, when LED is off, ring is without color



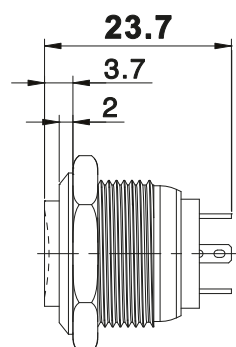
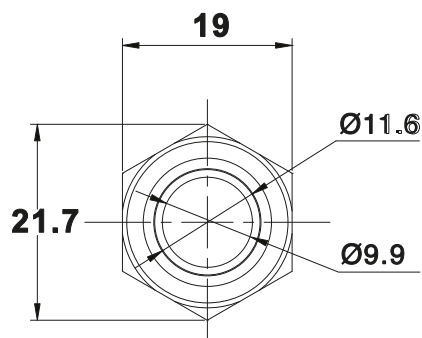
HIGH BUTTON - ILLUMINATED RING - SOLDER LUGS



SOAV116JJS00

stainless steel, momentary

* please choose LED color and voltage in Build your part number section, when LED is off, ring is without color



SOAV116 series

SECURITY PUSHBUTTON SWITCHES • Ø16MM • NO • LED ILLUMINATED

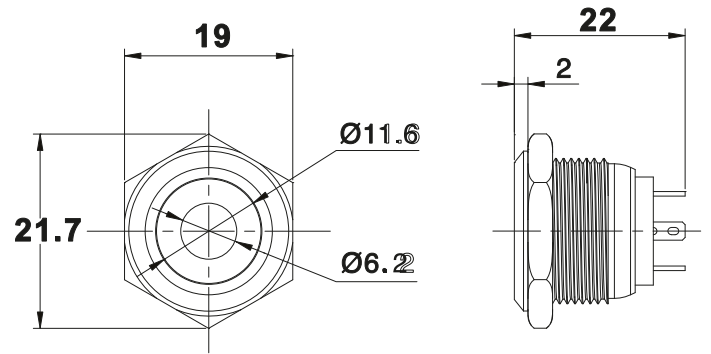
FLAT BUTTON - ILLUMINATED DOT - SOLDER LUGS



SOAV116DJA••

black anodized alum., momentary

* please choose LED color and voltage in Build your part number section,
when LED is off, lens dot has the same color as LED



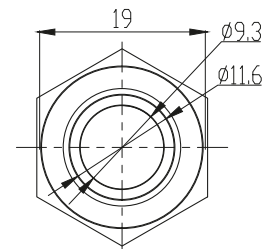
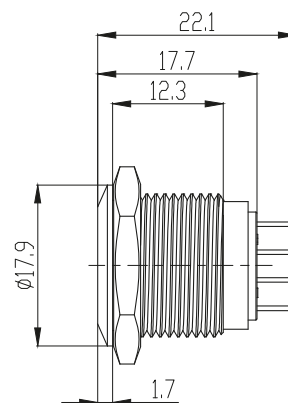
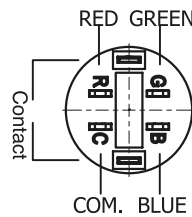
FLAT BUTTON - RGB RING - SOLDER LUGS



SOAV116EJSR00

stainless steel, momentary

Lens is transparent when LED is off.
Standard LED power supply : 3V



ACCESSORIES & OPTIONS

80-000217

knurled nut
nickel brass, M16x1



Crazy Colors

customized
color of button and body
submitted to MOQ



U.DESIGN

customized wiring
submitted MOQ



SECURITY PUSHBUTTON SWITCHES • Ø16MM • UP TO 2NO2NC • LED ILLUMINATED

DISTINCTIVE FEATURES

excellent tactile feedback

illuminated versions

momentary or latched

up to 2NO/2NC form C

3A @ 220 V

specific wiring upon request

specific marking upon request



ELECTRICAL SPECIFICATIONS

Max voltage : 250 V

Max current/voltage with resistive load :
3 A @ 220Vac / 5A @ 24 Vdc

Initial contact resistance : 50 mΩ max

Insulation resistance : 1 GΩ mini at 500Vdc

Electrical life : 100.000 cycles at full load

Dielectric strength : 1000 VAC, 50Hz, 50 seconds

LED voltage : see Build your part number section,

LED typical life : 40.000 hours

ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -25°C to +55°C

Protection grade to IP67 - frontpanel

Compliant with IEC60947-5-1 standard

Compliant with GB14048.5 standard

MECHANICAL SPECIFICATIONS

Actuation force : from 2 to 5 Newtons

Travel : from 1.5mm to 2.5mm

Mechanical life : 1.000.000 cycles

Switchbase material : PC

Body material : see Build your part number section

Button material : see Build your part number section,

Lugs material : gold plated copper

Contact material : gold plated silver

GENERAL SPECIFICATIONS

Typical drilling diameter : 16.5mm

Panel thickness : 15mm max.

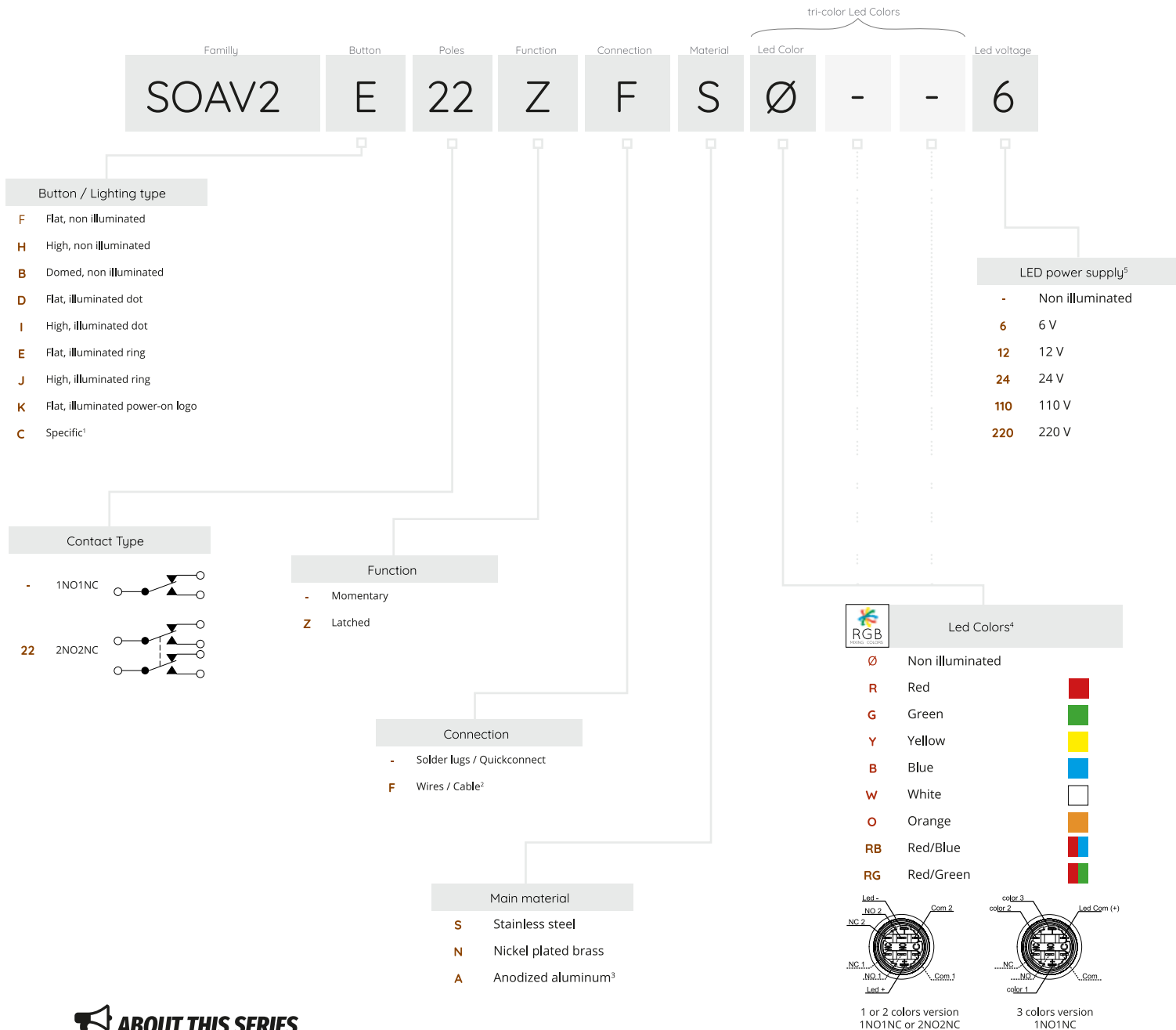
Minimum pitch for matrix installation : 24 x 24 mm

Hand soldering : 300°C max. during 5 seconds

SOAV2 series


SECURITY PUSHBUTTON SWITCHES • Ø16MM • UP TO 2NO2NC • LED ILLUMINATED

BUILD YOUR PART NUMBER



ABOUT THIS SERIES

¹  U.DESIGN service: custom button design, custom marking, **custom illuminated logo** on request

²  U.DESIGN service : custom wiring and harness upon request.

³ Anodized aluminum with custom color upon request and subject to MOQ.

⁴ LED Colors :

- for 1 or 2 colors version, please select colors from the list. For bi-color Leds (RG or RB), color change is operated with LED polarity swapping.

- for 3 colors, **1NO1NC version only**, select 3 desired colors from the list. Common power supply is made through the Cathod.

- **High intensity LED available on request**

⁵ Built-in protection resistor. Other LED voltages possible upon request.

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

SOAV2 series

SECURITY PUSHBUTTON SWITCHES • Ø16MM • UP TO 2NO/2NC • LED ILLUMINATED

CONFIGURATION EXAMPLES

FLAT BUTTON - NON LIT - 1NO/1NC

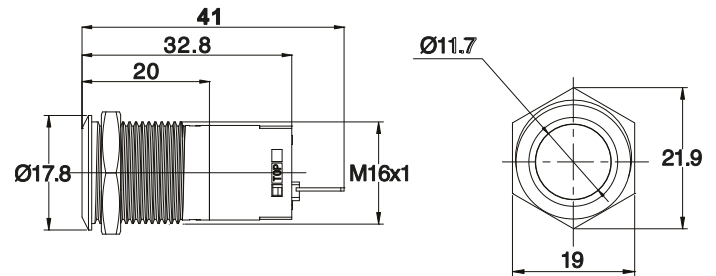


SOAV2FS

stainless steel, momentary

SOAV2FZS

stainless steel, maintained



HIGH BUTTON - NON LIT - 1NO/1NC

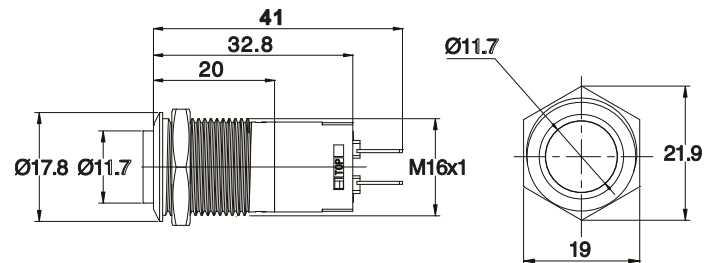


SOAV2HS

stainless steel, momentary

SOAV2HZS

stainless steel, maintained



FLAT BUTTON - LIT RING - 1NO/1NC

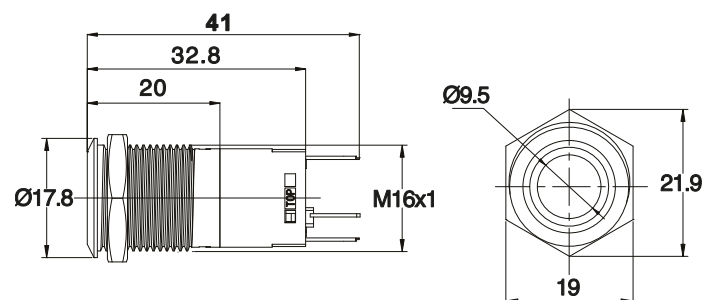


SOAV2ES••

stainless steel, momentary

SOAV2EZS••

stainless steel, maintained



• please choose LED color and voltage in Build your part number section,

SOAV2 series

SECURITY PUSHBUTTON SWITCHES • Ø16MM • UP TO 2NO2NC • LED ILLUMINATED

FLAT BUTTON - LIT DOT - 1NO/1NC



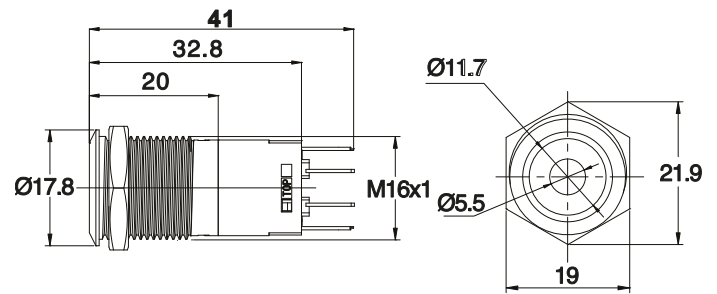
SOAV2DS••

stainless steel, momentary

SOAV2DZS••

stainless steel, maintained

* please choose LED color and voltage in Build your part number section,



HIGH BUTTON - LIT RING - 1NO/1NC



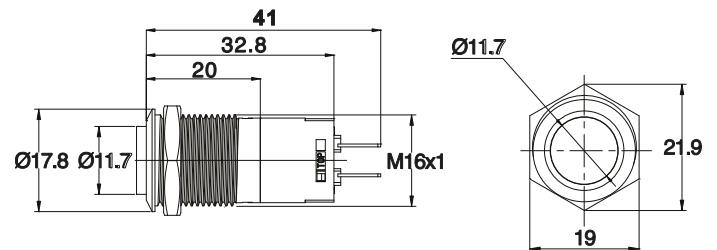
SOAV2JS••

stainless steel, momentary

SOAV2JZS••

stainless steel, maintained

* please choose LED color and voltage in Build your part number section,



HIGH BUTTON - LIT DOT - 1NO/1NC



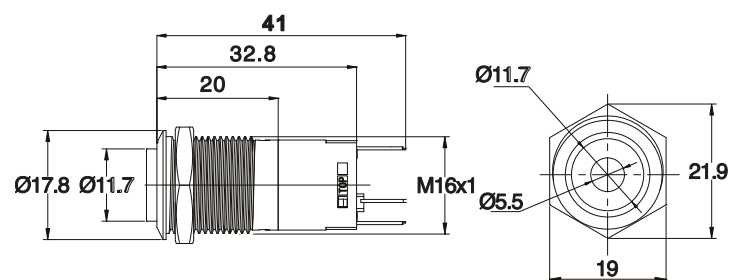
SOAV2IS••

stainless steel, momentary

SOAV2IZS••

stainless steel, maintained

* please choose LED color and voltage in Build your part number section,



SOAV2 series

SECURITY PUSHBUTTON SWITCHES • Ø16MM • UP TO 2NO2NC • LED ILLUMINATED

FLAT BUTTON - ILLUMINATED LOGO - 1NO/1NC - 1NO/1NC



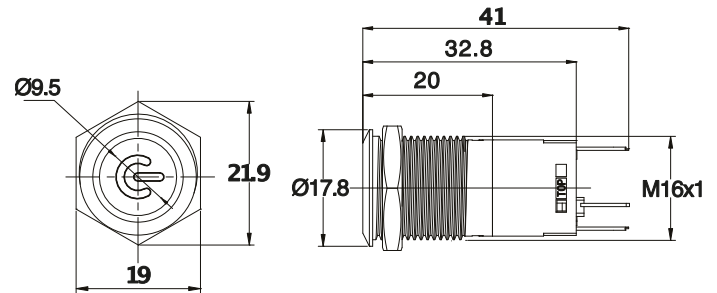
SOAV2KS••

stainless steel, momentary

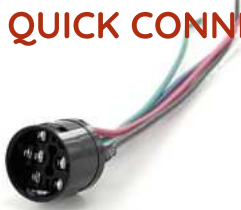
SOAV2KZS••

stainless steel, maintained

* please choose LED color and voltage in Build your part number section,



ACCESSORIES & OPTIONS QUICK CONNECTOR



SOAV2

1 NONC

SOAC2-3P-15

SOAC2-5P-15

SOAC3-8P-15

Caractéristiques des fils : multibrin section 1,5mm²

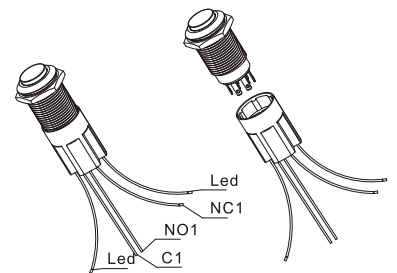
2NONC

SOAC2-6P-15

SOAC2-8P-15

N/A

SOAC2-6 : boîtier connecteur vide / SOAC2-14 : cosse 2,0 pour boîtier SOAC2-6



Couleurs
de LED

No ILLUMINATION



80-000217

Knurled nut
nickel brass M16x1



U.DESIGN

taylor made wiring

Custom designed wiring
MOQ required



example of a specific wiring made on request on a SOAV2DNB12 pushbutton type

illuminated customized logo
MOQ required
no technical fees



SECURITY PUSHBUTTON SWITCHES • Ø19MM • NO • LED ILLUMINATED

🏆 DISTINCTIVE FEATURES

excellent tactile feedback

LED illuminated versions

momentary

NO contact

3A @ 220 V

specific wiring upon request

custom illuminated logo upon request

IP67/IK10



⚡ ELECTRICAL SPECIFICATIONS

Max voltage : 250 V

Max current/voltage with resistive load :
3 A @ 220Vac / 5A @ 24 Vdc

Initial contact resistance : 50 mΩ max

Insulation resistance : 1000 MΩ mini at 500Vdc

Electrical life : 100.000 cycles at full load

Dielectric strength : 1000 VAC, 50Hz, 50 seconds

LED voltage : see *Build your part number* section

LED typical life : 40.000 hours

☀ ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -30°C to +85°C

Non illuminated versions are IK10 compliant

Ingress Protection to IP67

Compliant with IEC60947-5-1 standard

Compliant with GB14048.5 standard

⚙ MECHANICAL SPECIFICATIONS

Actuation force : from 2 to 5 Newtons

Travel : from 1.5mm to 2.5mm

Mechanical life : 1.000.000 cycles minimum

Switchbase material : PA66G30

Body material : see *Build your part number* section

Button material : see *Build your part number* section

Contact material : silver plated

≡ GENERAL SPECIFICATIONS

Typical drilling diameter : 19.5mm

Panel thickness : 14mm max.

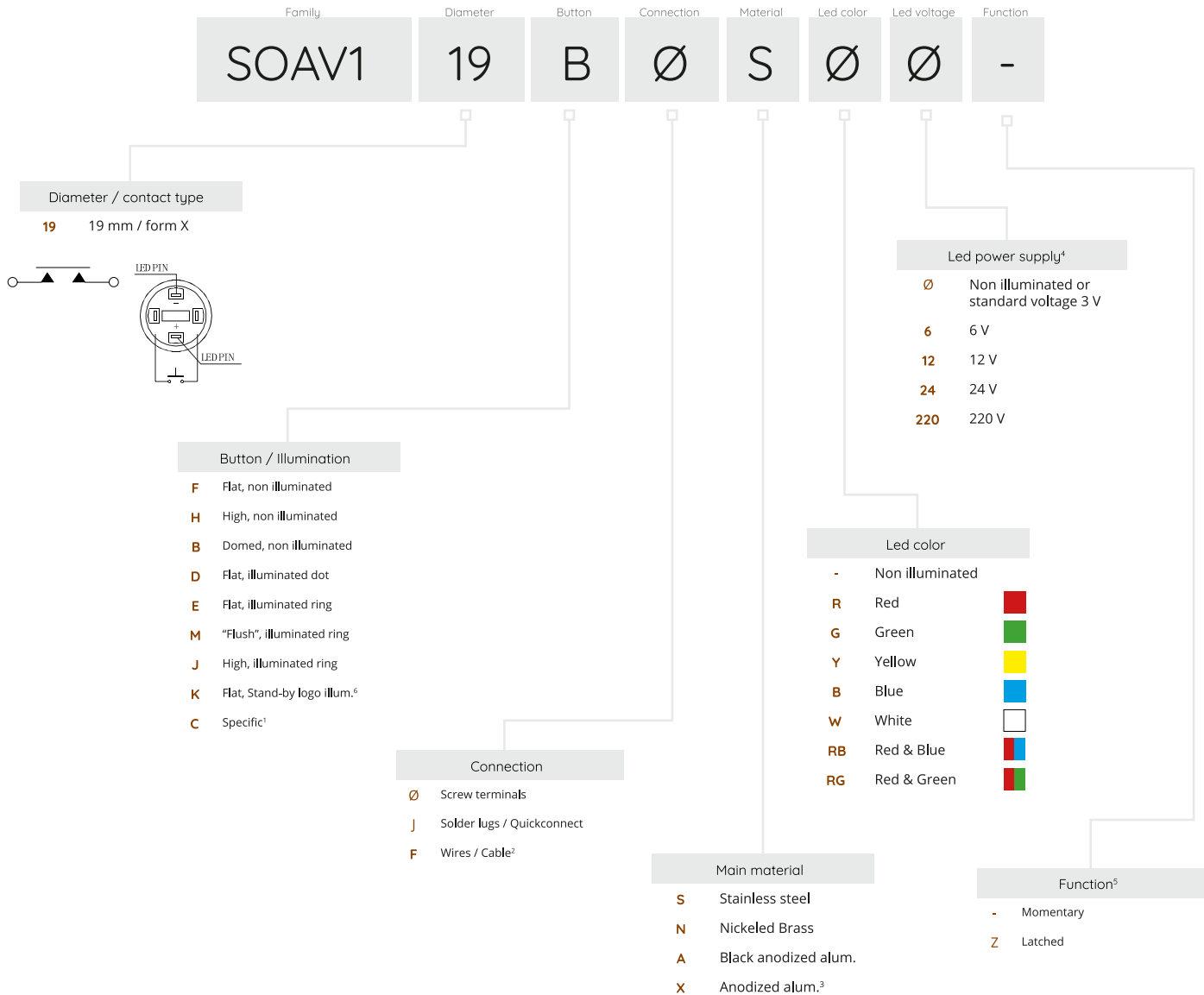
Minimum pitch for matrix installation : 24 x 24 mm

Hand soldering : 300°C max. during 5 seconds


SOAV119 series


SECURITY PUSHBUTTON SWITCHES • Ø19MM • NO • LED ILLUMINATED

BUILD YOUR PART NUMBER



ABOUT THIS SERIES

¹  U.DESIGN service: custom button design on request, custom marking and custom illuminated logo on request.

²  U.DESIGN service : custom wiring and harness on request.

³ Anodized aluminum with custom color upon request and subject to MOQ.

⁴ Standard LED power-supply : 3 V. For the options 6, 12, 24 the resistor is built-in.

⁵ Z option is only available on non illuminated versions.

⁶ Stand-by illuminated logo only available on screw terminals version.

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

SOAV119 series

SECURITY PUSHBUTTON SWITCHES • Ø19MM • NO • LED ILLUMINATED

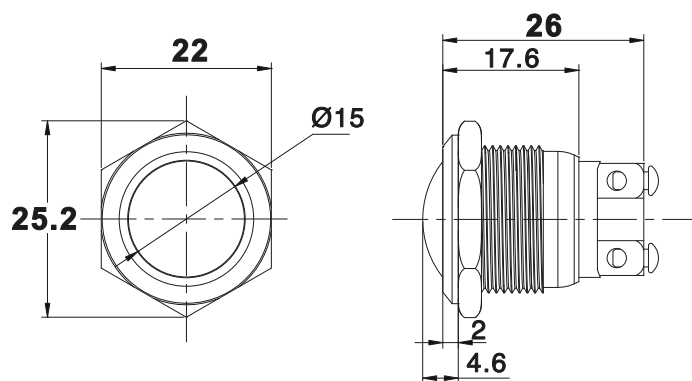
CONFIGURATION EXAMPLES

DOMED BUTTON - NON ILLUMINATED - SCREW TERMINALS



SOAV119B0S00

stainless steel, momentary

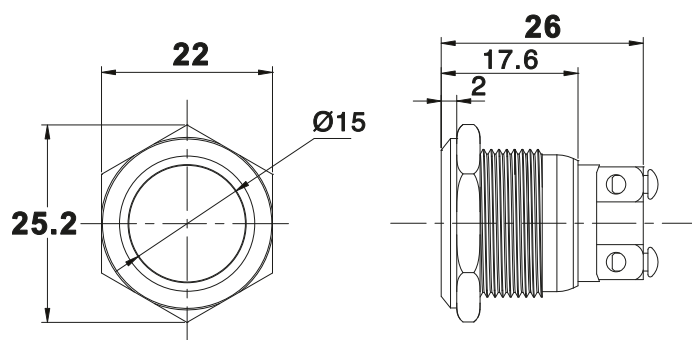


FLAT BUTTON - NON ILLUMINATED - SCREW TERMINALS



SOAV119F0S00

stainless steel, momentary

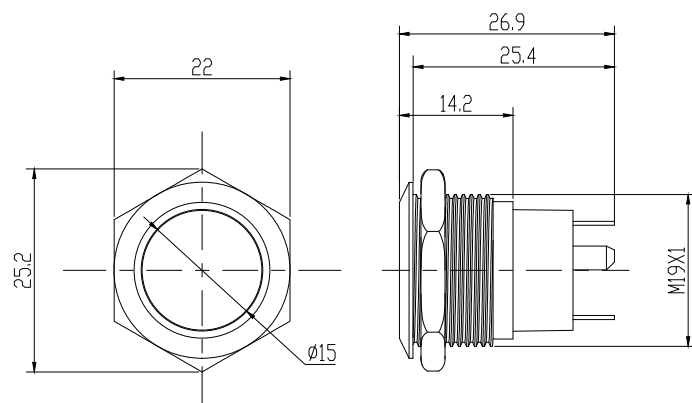


FLAT BUTTON - NON ILLUMINATED - SOLDER LUGS



SOAV119FJN00Z

nickel-plated brass, alternate



SOAV119 series

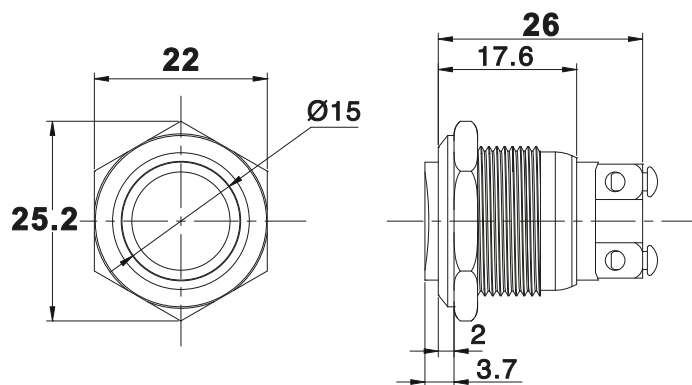
SECURITY PUSHBUTTON SWITCHES • Ø19MM • NO • LED ILLUMINATED

HIGH BUTTON - NON ILLUMINATED - SCREW TERMINALS



SOAV119H0S00

stainless steel, momentary



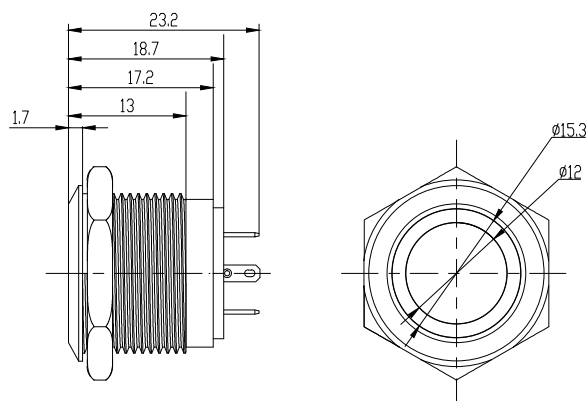
FLAT BUTTON - ILLUMINATED RING - SOLDER LUGS



SOAV119EJS00

stainless steel, momentary

* please choose LED color and voltage in Build your part number section, page 2
when LED is off, ring has the same color as the LED



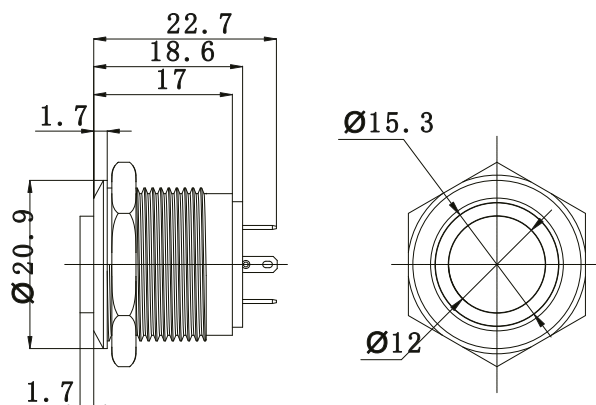
HIGH BUTTON - ILLUMINATED RING - SOLDER LUGS



SOAV119JJA00

black anodised alum., momentary

* please choose LED color and voltage in Build your part number section, page 2
when LED is off, ring has the same color as the LED



SOAV119 series

SECURITY PUSHBUTTON SWITCHES • Ø19MM • NO • LED ILLUMINATED

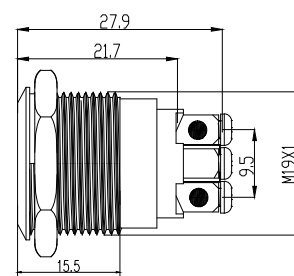
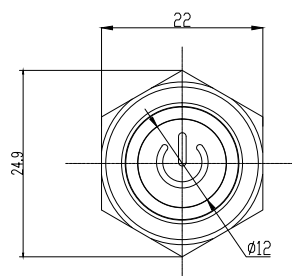
FLAT BUTTON - ILLUMINATED LOGO - SCREWS



SOAV119K0S..

stainless steel., momentary

* please choose LED color and voltage in Build your part number section, page 2
when LED is off, ring has the same color as the LED



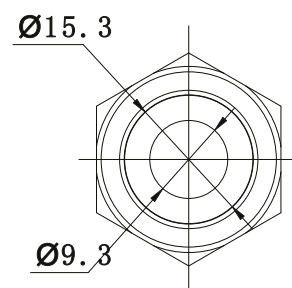
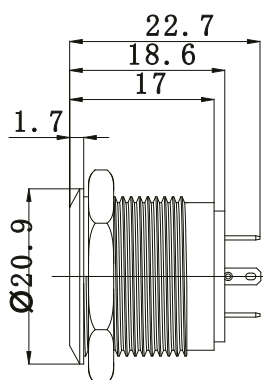
FLAT BUTTON - ILLUMINATED DOT - SOLDER LUGS



SOAV119DJS..

stainless steel, momentary

* please choose LED color and voltage in Build your part number section, page 2
when LED is off, ring has the same color as the LED



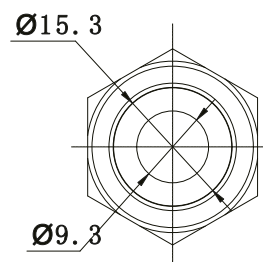
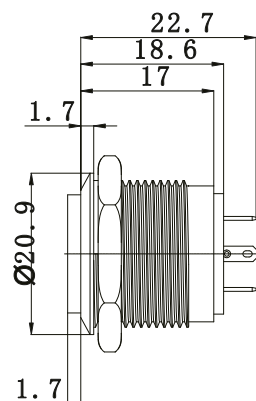
HIGH BUTTON - ILLUMINATED DOT - SOLDER LUGS



SOAV119IJS..

stainless steel, momentary

* please choose LED color and voltage in Build your part number section, page 2
when LED is off, ring has the same color as the LED



SOAV119 series

SECURITY PUSHBUTTON SWITCHES • Ø19MM • NO • LED ILLUMINATED

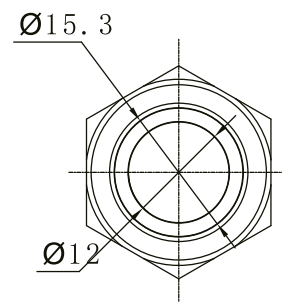
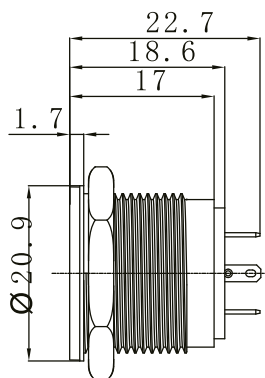
FLUSH BUTTON - ILLUMINATED RING - SOLDER LUGS



SOAV119MJS•0R•

stainless steel, momentary

• please choose LED color and external resistor in Build your part number section, page 2
when LED is off, ring is without color



ACCESSORIES

80-000220

knurled nut
nickel brass, M19x1



80-000219

knurled nut
brass, M19x1



Crazy Colors

customized button and body color
submitted to MOQ



U.DESIGN

customized wiring
submitted to MOQ



custom designed
illuminated logo
submitted to MOQ



SECURITY PUSHBUTTON SWITCHES • Ø19MM • UP TO 2NO2NC • LED ILLUMINATED

DISTINCTIVE FEATURES

Great tactile feedback
illuminated versions
selector / key selector versions
momentary or latched
up to 2NO/2NC form C
3A @ 220 V
specific wiring on request
specific marking on request



ELECTRICAL SPECIFICATIONS

Max voltage : 250 V
Max current/voltage with resistive load :
3 A @ 220Vac / 5A @ 24 Vdc
Initial contact resistance : 50 mΩ max
Insulation resistance : 1 GΩ mini at 500Vdc
Electrical life : 100.000 cycles at full load
Dielectric strength : 1500 VAC, 50Hz, 50 seconds
LED voltage : see Build your part number section,
LED typical life : 40.000 hours

ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -40°C to +70°C
Protection grade to IP67 - frontpanel
Compliant with IEC60947-5-1 standard
Compliant with GB14048.5 standard

MECHANICAL SPECIFICATIONS

Actuation force : from 2 to 5 Newtons
Travel : from 1.5mm to 2.5mm
Mechanical life : 1.000.000 cycles
Switchbase material : PA66
Body material : see Build your part number section
Button material : see Build your part number section,
Lugs material : gold plated copper
Contact material : gold plated silver

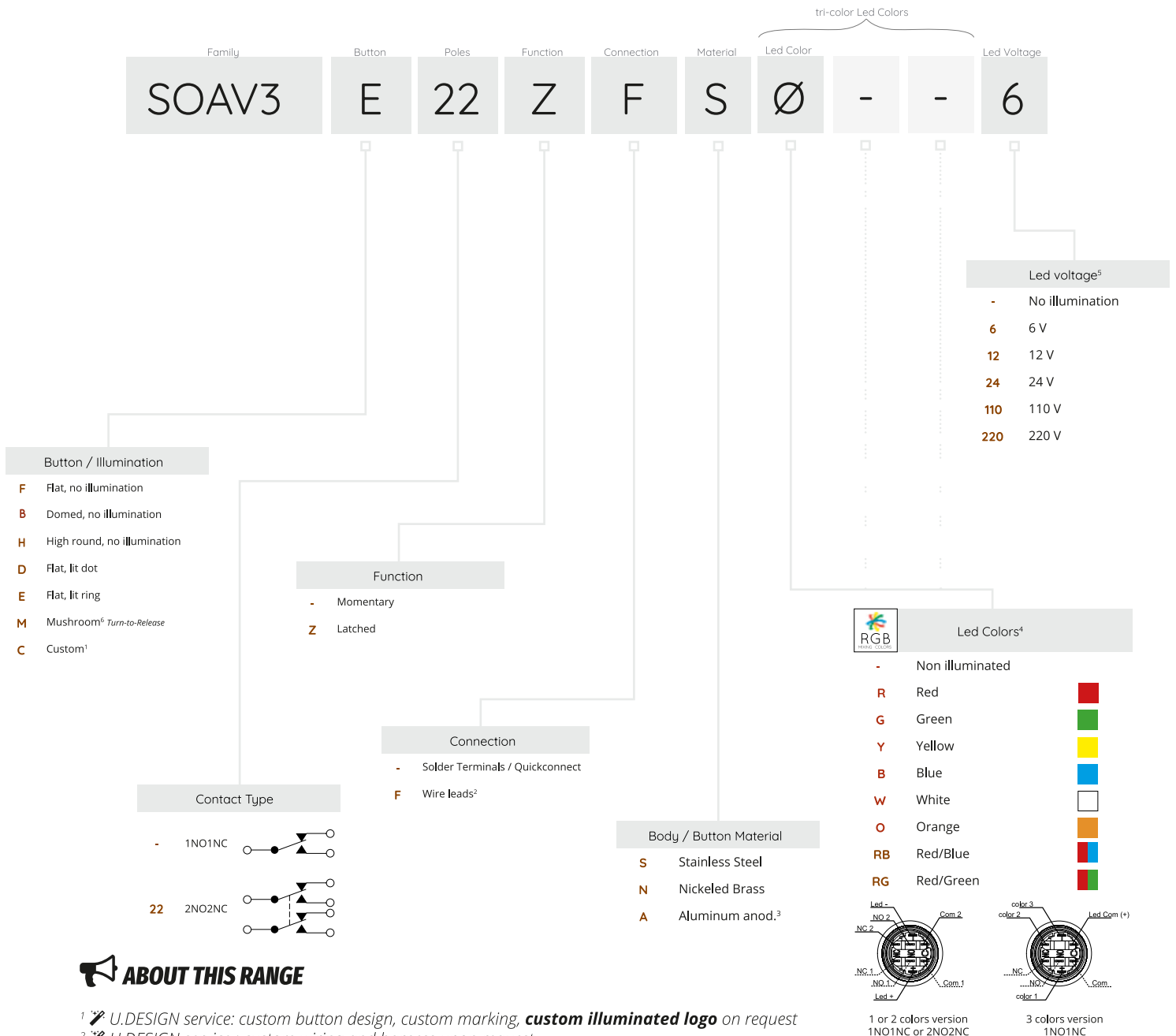
GENERAL SPECIFICATIONS

Typical drilling diameter : 19.5mm
Panel thickness : 20mm max.
Minimum pitch for matrix installation : 24 x 24 mm
Hand soldering : 300°C max. during 5 seconds

SOAV3 series


SECURITY PUSHBUTTON SWITCHES • Ø19MM • UP TO 2NO2NC • LED ILLUMINATED

BUILD YOUR PART NUMBER



ABOUT THIS RANGE

¹  U.DESIGN service: custom button design, custom marking, **custom illuminated logo** on request

²  U.DESIGN service: custom wiring and harness upon request.

³ Anodized aluminum with custom color upon request and subject to MOQ.

⁴ Led Colors :

- for 1 or 2 colors version, please select colors from the list. For bi-color Leds (RG or RB), color change is operated with LED polarity swapping.
- for 3 colors, **1NO1NC version only**, select 3 desired colors from the list. Common power supply is made through the Cathod.

- **High intensity LED available on request**

⁵ Built-in protection resistor. Other LED voltages possible upon request.

⁶ Mushroom version available with simple or double pole, no illumination : **part numbers SOAV3M2S and SOAV3M22S only.**

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

SOAV3 series

SECURITY PUSHBUTTON SWITCHES • Ø19MM • UP TO 2NO/2NC • LED ILLUMINATED

CONFIGURATION EXAMPLES

FLAT BUTTON - NO ILLUMINATION - 2NO/2NC

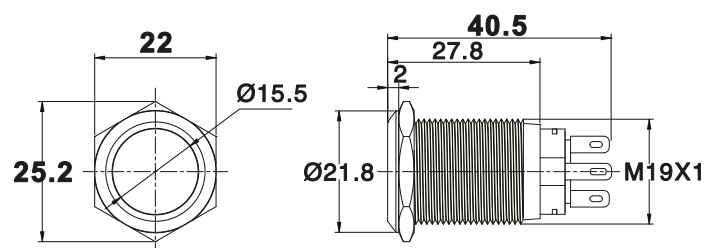


SOAV3F22S

stainless steel, momentary

SOAV3F22ZS

stainless steel, maintained



FLAT BUTTON - “STAND-BY” ILLUMINATED LOGO- 1NO/1NC

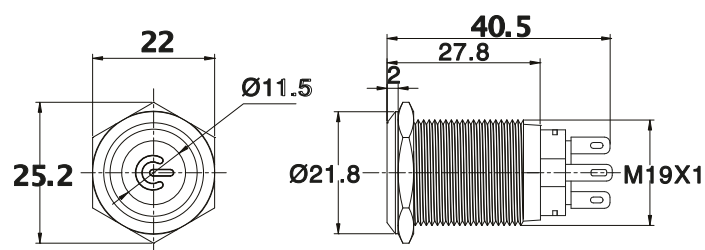


SOAV3KS

stainless steel, momentary

SOAV3KZS

stainless steel, maintained



FLAT BUTTON - ILLUMINATED RING - 1NO/1NC

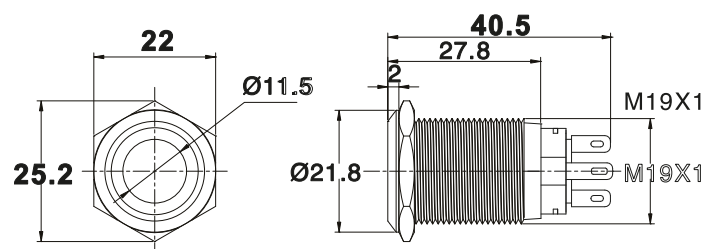


SOAV3ES••

stainless steel, momentary

SOAV3EZS••

stainless steel, maintained



• please choose LED color and voltage in Build your part number section

FLAT BUTTON - ILLUMINATED DOT - 1NO/1NC

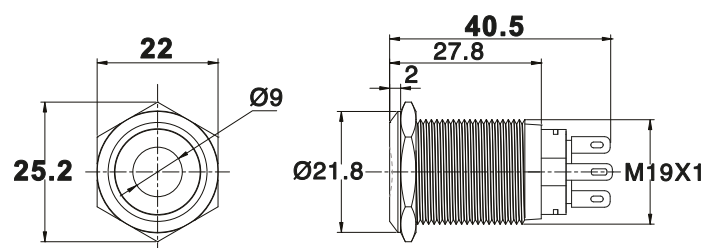


SOAV3DS••

stainless steel, momentary

SOAV3DZS••

stainless steel, maintained



• please choose LED color and voltage in Build your part number section

SOAV3 series

SECURITY PUSHBUTTON SWITCHES • Ø19mm • UP TO 2NO2NC • LED ILLUMINATED

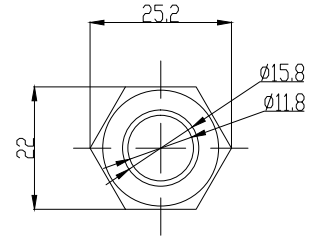
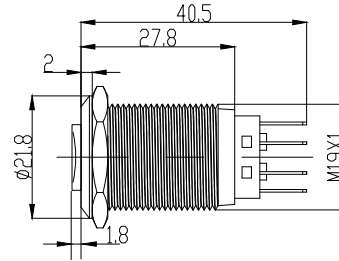
HIGH ROUND BUTTON - ILLUMINATED RING - 2NO/2NC



SOAV3J22ZS••

stainless steel, maintained

* please choose LED color and voltage in Build your part number section

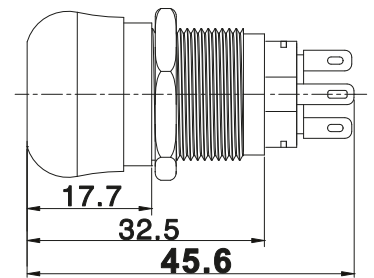
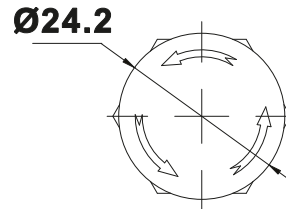


MUSHROOM - 1NO/1NC



SOAV3MZS

stainless steel, maintained



ACCESSORIES

QUICK CONNECTOR



		SOAV3	
		1 NO1NC	2NO2NC
LED colors	No ILLUMINATION	SOAC3-3P-15	SOAC3-6P-15
		SOAC3-5P-15	SOAC3-8P-15
		SOAC3-8P-15	N/A

SOAC3-C : empty connector / SOAC3-M : 2.8 crimping terminal for SOAC3-C



U.DESIGN

cablage haute couture



Custom designed wiring
MOQ required

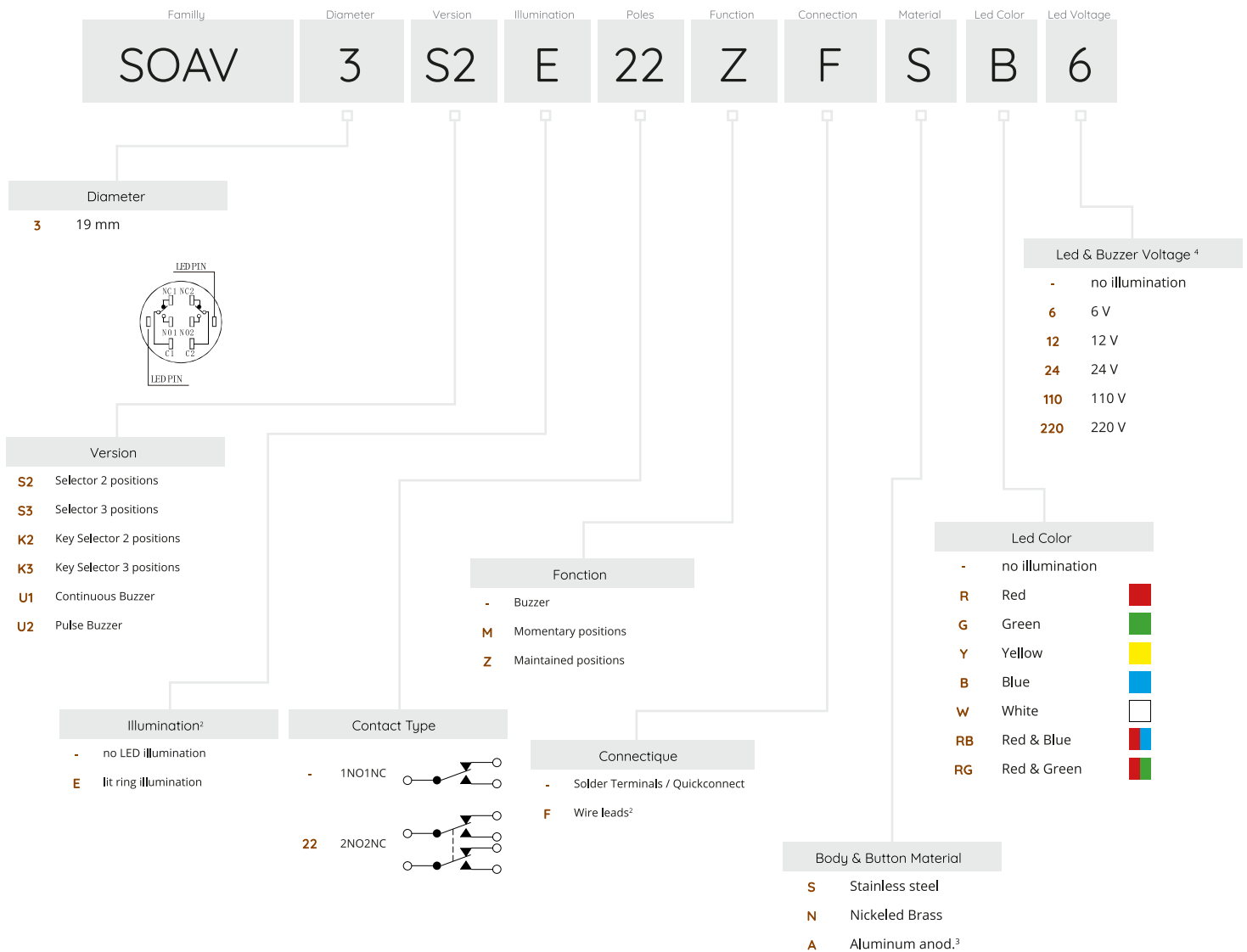
illuminated customized logo
MOQ required
no technical fees



SOAV3 series


SELECTORS & BUZZERS • Ø19mm • UP TO 2NO2NC • LED ILLUMINATED

BUILD YOUR PART NUMBER - SELECTORS & BUZZERS



ABOUT THIS RANGE

¹ Key selector available without illumination only.

² service  U.DESIGN : custom wiring and harness upon request.

³ Anodized aluminum with custom color upon request and subject to MOQ.

⁴ Built-in protection resistor. Other LED voltages possible upon request.

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

FOR ALL YOUR SPECIFIC
REQUESTS, PLEASE WRITE :
SALES@KYNOPPE.COM

SOAV3 series

SELECTORS & BUZZERS • Ø19MM • UP TO 2NO2NC • LED ILLUMINATED

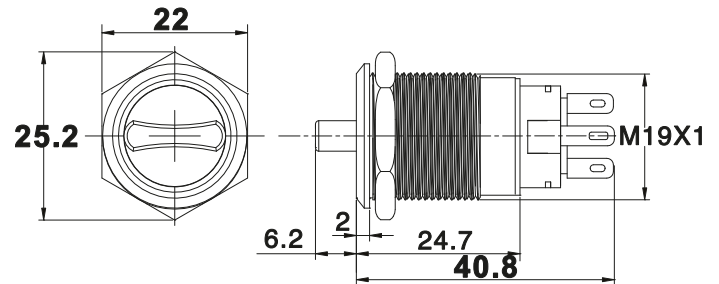
CONFIGURATION EXAMPLES

2 POSITIONS SELECTOR - NO ILLUMINATION - SPDT



SOAV3S2MS

stainless steel, 2 positions momentary
90°, single pole



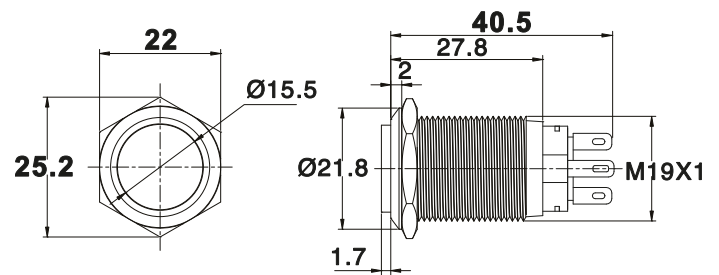
3 POSITIONS SELECTOR - RING ILLUMINATION - DPDT



SOAV3S3E22ZS••

stainless steel, 3 positions maintained
90°, double pole

• please select LED color as well as voltage in Build Your Part Number section

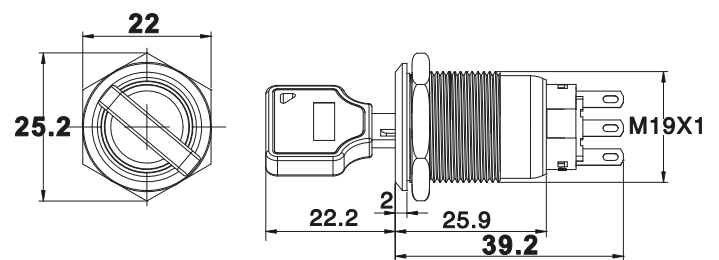


3 POSITIONS KEY SELECTOR - NO ILLUMINATION - SPDT



SOAV3K3ZS

stainless steel, 3 positions maintained
90°



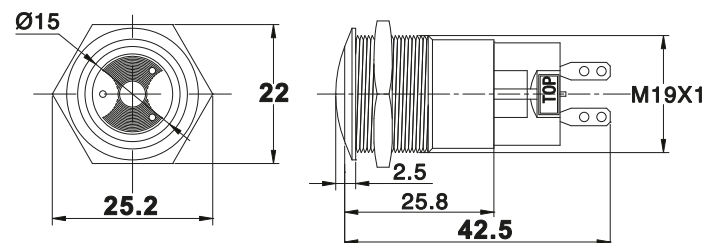
PULSE BUZZER - RING ILLUMINATION



SOAV3U2ES••

stainless steel

• please select LED color as well as voltage in Build Your Part Number section



SECURITY PUSHBUTTON SWITCHES • Ø19MM • 1NO1NC • LED ILLUMINATED

DISTINCTIVE FEATURES

great tactile feedback

illuminated versions

maintained or momentary action

1NO+1NC form Z

2A @ 220 V

wiring on request

marking on request



ELECTRICAL SPECIFICATIONS

Max voltage : 220 V

Max current/voltage with resistive load :
2 A @ 220Vac / 0.1 A @ 220 Vdc

Initial contact resistance : 50 mΩ max

Insulation resistance : 1 GΩ mini at 500Vdc

Electrical life : 50.000 cycles at full load

Dielectric strength : 1500 VAC, 50Hz, 50 seconds

LED voltage : see Build your part number section,

LED typical life : 40.000 hours

ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -25°C to +55°C

Protection grade to IP67 - frontpanel

Compliant with IEC60947-5-1 standard

Compliant with GB14048.5 standard

MECHANICAL SPECIFICATIONS

Actuation force : 4 Newtons

Travel : 2.5mm

Mechanical life : 1.000.000 cycles

Switchbase material : PC

Body material : Stainless steel

Button material : Stainless steel

Lugs material : gold plated copper

Contact material : gold plated silver

GENERAL SPECIFICATIONS

Typical drilling diameter : 19.5mm

Panel thickness : 20mm max.

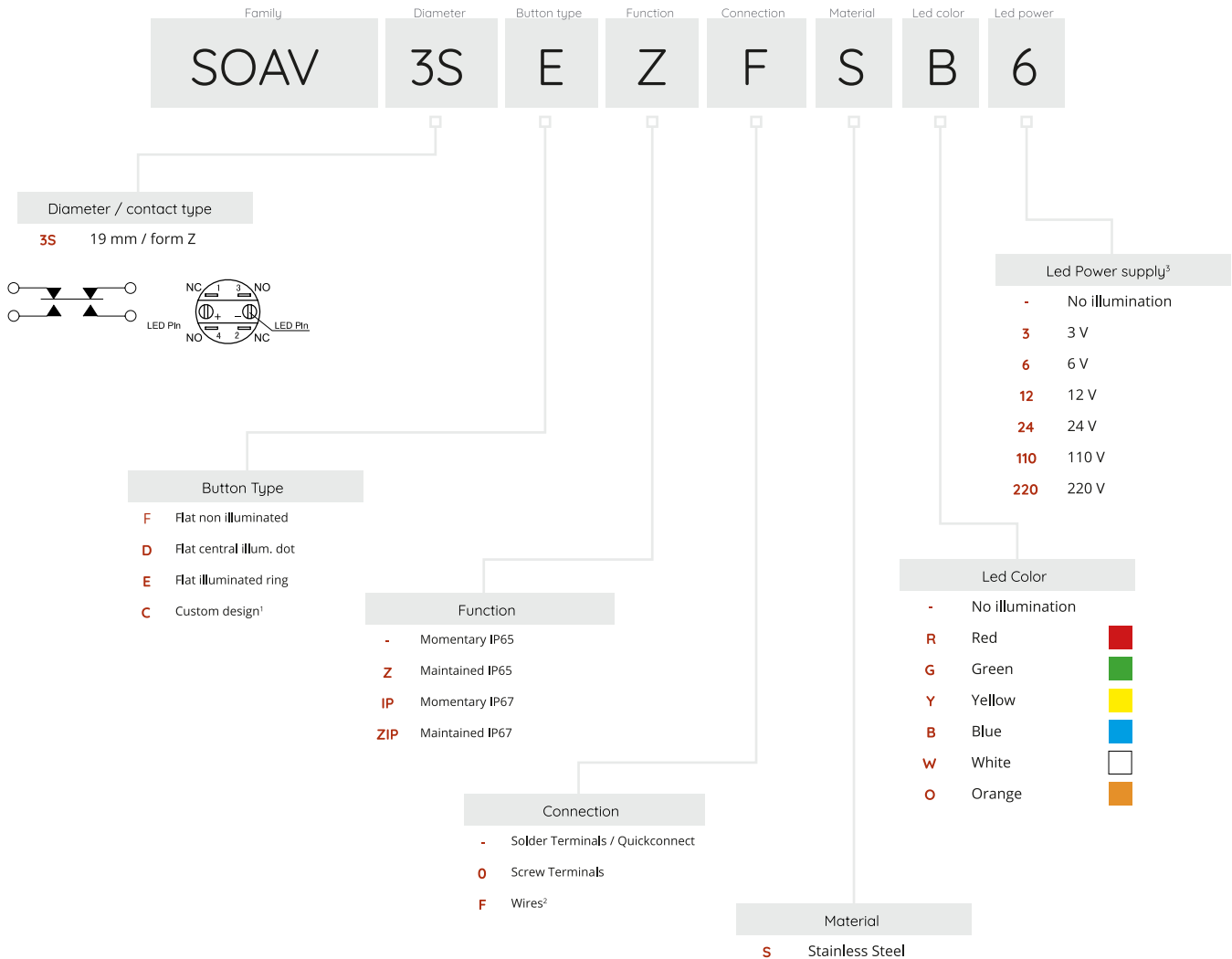
Minimum pitch for matrix installation : 24 x 24 mm

Hand soldering : 300°C max. during 5 seconds

SOAV3S series


SECURITY PUSHBUTTON SWITCHES • Ø19MM • 1NO1NC • LED ILLUMINATED

BUILD YOUR PART NUMBER



ABOUT THIS RANGE

¹  U.DESIGN service: custom button design on request, custom marking on request, custom illuminated logo on request.

²  U.DESIGN service : custom wiring and harness upon request.

³ Internal resistor to protect LED. Other power supplies are available on request.

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

SOAV3S series

SECURITY PUSHBUTTON SWITCHES • Ø19mm • 1NO1NC • LED ILLUMINATED

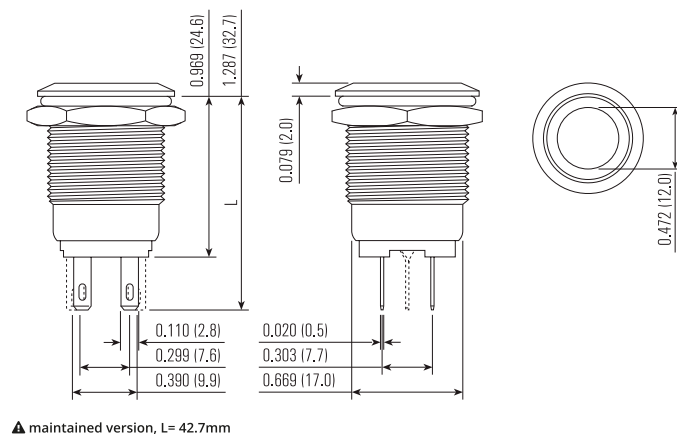
CONFIGURATION EXAMPLES

FLAT BUTTON - ILLUMINATED RING - 1NO+1NC



SOAV3SES••

stainless, momentary, solder terminals

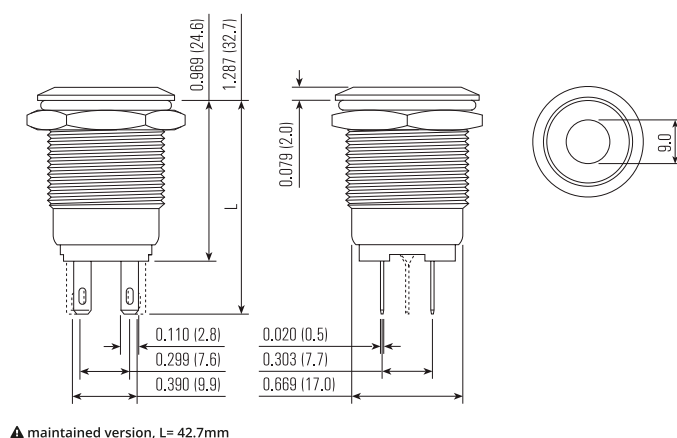


FLAT BUTTON - ILLUMINATED CENTRAL DOT - 1NO+1NC



SOAV3SDS••

stainless, momentary, solder terminals

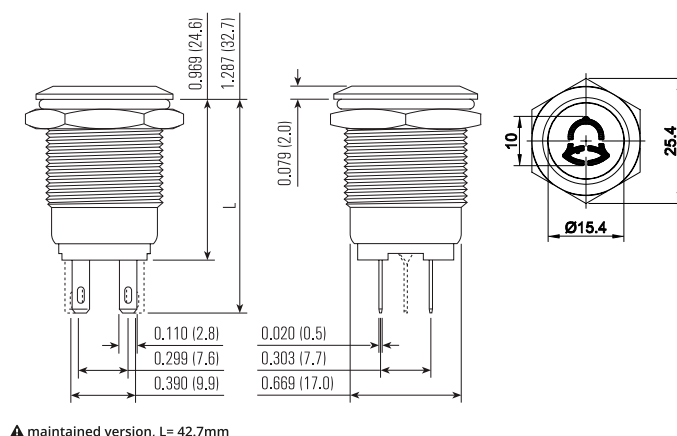


FLAT BUTTON - “BELL” ILLUMINATED LOGO - 1NO+1NC



SOAV3SCS••

stainless, momentary, solder terminals



SECURITY PUSHBUTTON SWITCHES • Ø22MM • NO • LED ILLUMINATED

DISTINCTIVE FEATURES

wide actuating area
momentary action
NO contact
3A @ 220 V
Illuminated versions
specific wiring upon request
IP67
IK10



ELECTRICAL SPECIFICATIONS

Max voltage : 250 V
Max current/voltage with resistive load :
3 A @ 220Vac / 5A @ 24 Vdc
Initial contact resistance : 50 mΩ max
Insulation resistance : 1000 MΩ mini at 500Vdc
Electrical life : 100.000 cycles at full load
Dielectric strength : 1000 VAC, 50Hz, 50 seconds
LED life : 40.000 hours

ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -30°C to +85°C
IK10 compliant
Ingress Protection to IP67
Compliant with IEC60947-5-1 standard
Compliant with GB14048.5 standard

MECHANICAL SPECIFICATIONS

Actuation force : from 2 to 5 Newtons
Travel : from 1.5mm to 2.5mm
Mechanical life : 1.000.000 cycles minimum
Switchbase material : PA66G30
Body material : see *Build your part number* section
Button material : see *Build your part number* section
Contact material : silver plated

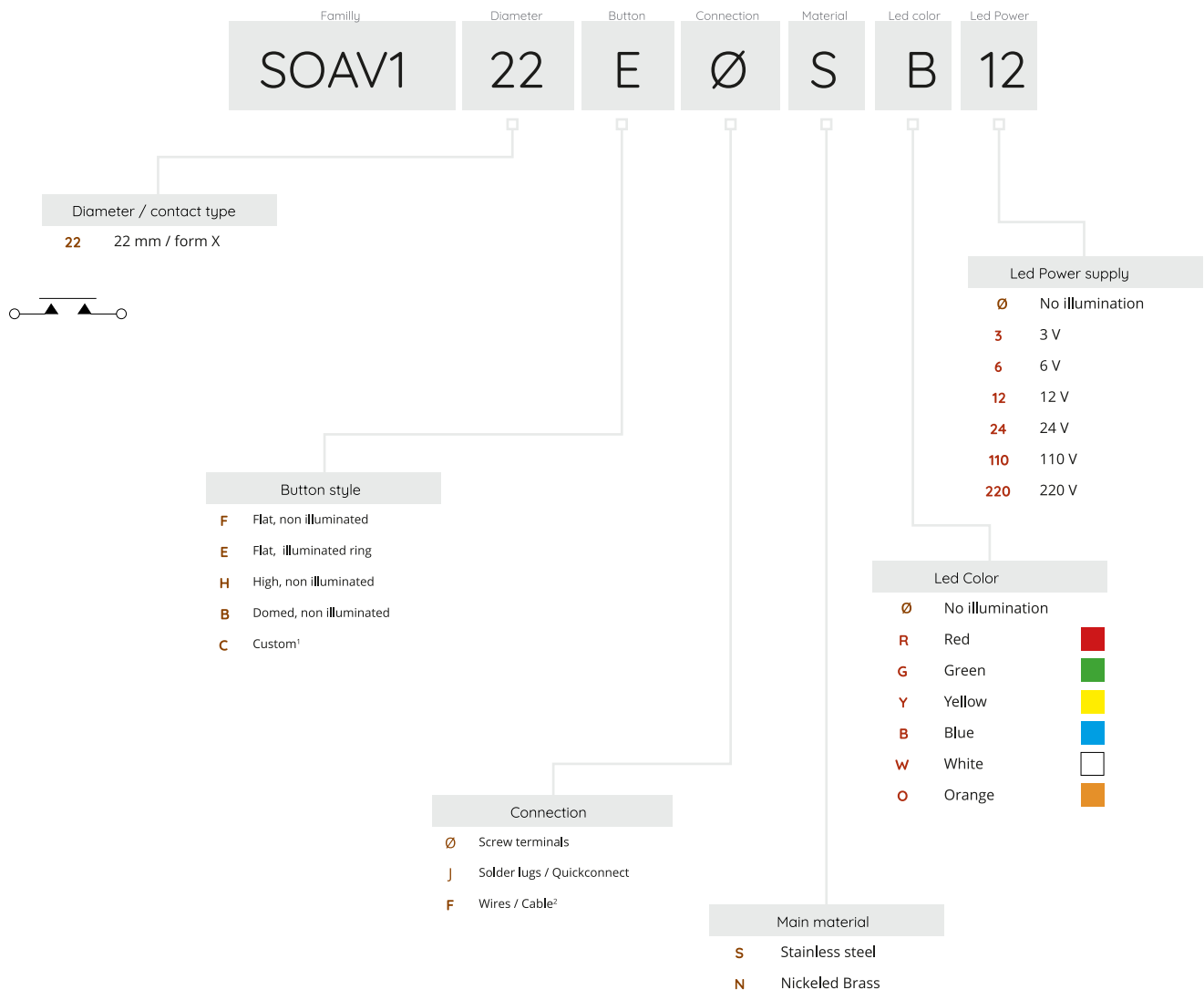
GENERAL SPECIFICATIONS

Typical drilling diameter : 22.5mm
Panel thickness : 14mm max.
Minimum pitch for matrix installation : 24 x 24 mm
Hand soldering : 300°C max. during 5 seconds


SOAV122 series


SECURITY PUSHBUTTON SWITCHES • Ø22MM • NO • LED ILLUMINATED

BUILD YOUR PART NUMBER



ABOUT THIS SERIES

¹  U.DESIGN service: custom button design on request, custom marking and custom illuminated logo on request.

²  U.DESIGN service : custom wiring and harness on request.

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@kynoppe.com

SOAV122 series

SECURITY PUSHBUTTON SWITCHES • Ø22MM • NO • LED ILLUMINATED

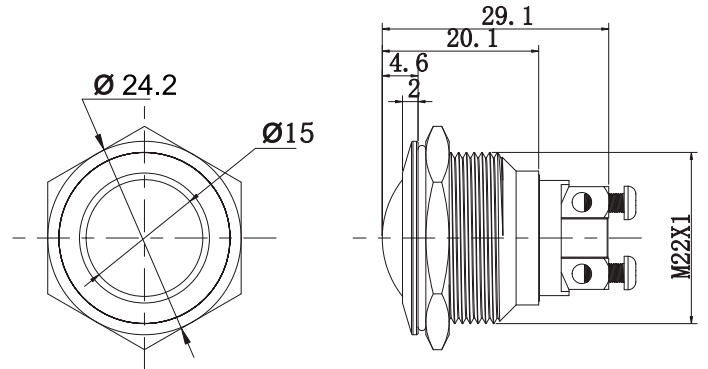
CONFIGURATION EXAMPLES

DOMED BUTTON - NON ILLUMINATED - SCREW TERMINALS



SOAV122B0S00

stainless steel

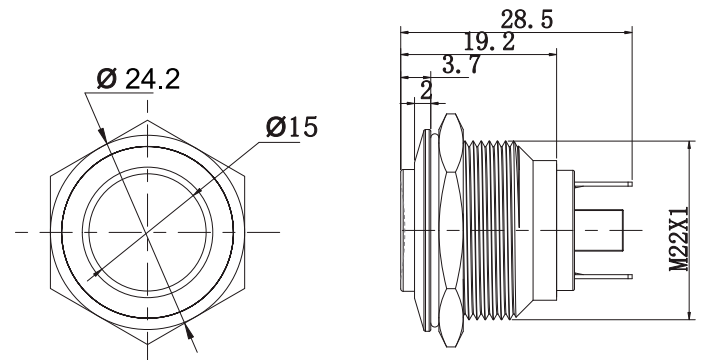


HIGH BUTTON - NON ILLUMINATED - SOLDER TERMINALS



SOAV122FJN00

Nickel-plated brass



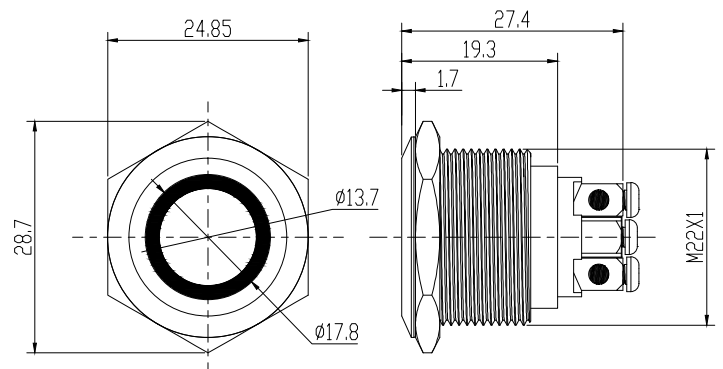
FLAT BUTTON - ILLUMINATED RING - SCREW TERMINALS



SOAV122E0S00

stainless steel

* please choose LED color and voltage in Build your part number section,



SECURITY PUSHBUTTON SWITCHES • Ø22MM • UP TO 2NO2NC • LED ILLUMINATED

🏆 DISTINCTIVE FEATURES

large actuation surface
excellent tactile feedback

superbright LED

momentary or latched

up to 2NO/2NC DPDT

3A @ 220 V

specific wiring upon request

specific marking upon request



⚡ ELECTRICAL SPECIFICATIONS

Max voltage : 250 V

Max current/voltage with resistive load :
3 A @ 220Vac / 5A @ 24 Vdc

Initial contact resistance : 50 mΩ max

Insulation resistance : 1000 MΩ mini at 500Vdc

Electrical life : 100.000 cycles at full load

Dielectric strength : 1500 VAC, 50Hz, 50 seconds

LED voltage : see Build you part number section

LED typical life : 40.000 hours

⚙️ ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -30°C to +85°C

Protection grade to IP67 - frontpanel

Shock resistance : IK10

Compliant with IEC60947-5-1 standard

Compliant with GB14048.5 standard

⚙️ MECHANICAL SPECIFICATIONS

Actuation force : from 2 to 5 Newtons

Travel : from 1.5mm to 2.5mm

Mechanical life : 500.000 cycles

Switchbase material : PA66

Body material : see Build you part number section

Button material : see Build you part number section

Lugs material : gold plated copper

Contact material : gold plated silver

≡ GENERAL SPECIFICATIONS

Typical drilling diameter : 22.5mm

Panel thickness : 12mm max.

Minimum pitch for matrix installation : 27 x 27 mm

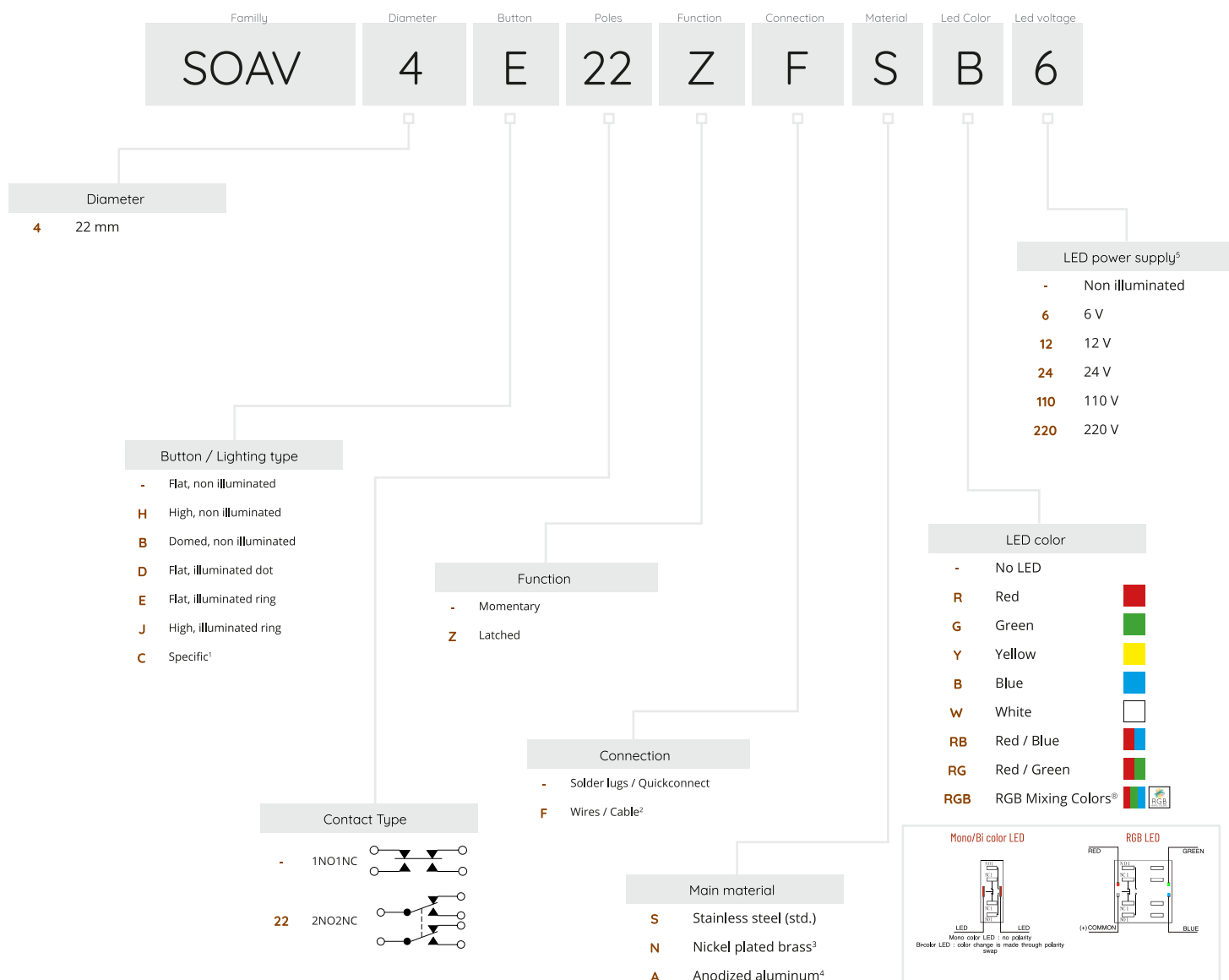
Hand soldering : 300°C max. during 5 seconds



SOAV4 series


SECURITY PUSHBUTTON SWITCHES • Ø22MM • UP TO 2NO2NC • LED ILLUMINATED

BUILD YOUR PART NUMBER



ABOUT THIS RANGE

¹  U.DESIGN service: custom button design upon request, custom marking, **custom illuminated logo** available on request.

²  U.DESIGN service: custom wiring and harness upon request.

³ Nickel plated brass upon request and subject to MOQ.

⁴ Anodized aluminum with custom color upon request and subject to MOQ.

⁵ Built-in protection resistor. Other LED voltages possible upon request.

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

SOAV4 series

SECURITY PUSHBUTTON SWITCHES • Ø22MM • UP TO 2NO2NC • LED ILLUMINATED

CONFIGURATION EXAMPLES

FLAT BUTTON - NO ILLUMINATION - 1NO/1NC

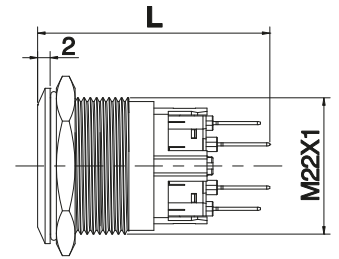
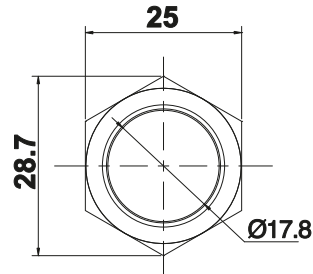


SOAV4S

momentary

SOAV4ZS

maintained



L: Momentary 37.15mm
Maintained 42.5mm

FLAT BUTTON - ILLUMINATED DOT - 1NO/1NC

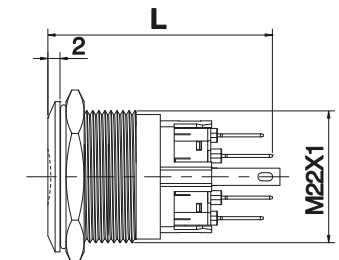
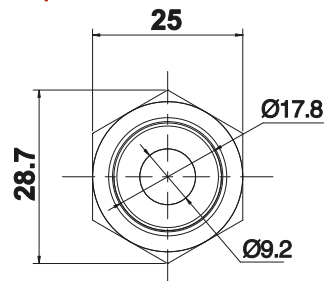


SOAV4DS••

momentary

SOAV4DZS••

maintained



L: Momentary 37.15mm
Maintained 42.5mm

* please choose LED color and voltage in Build your part number section,

FLAT BUTTON - ILLUMINATED RING - 1NO/1NC

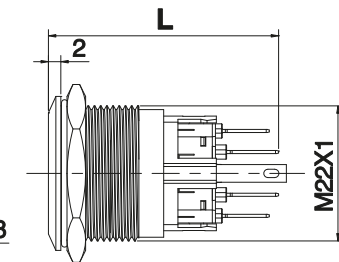
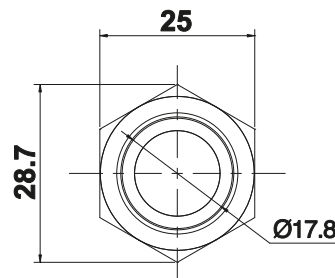


SOAV4ES••

momentary

SOAV4EZS••

maintained



L: Momentary 37.15mm
Maintained 42.5mm

* please choose LED color and voltage in Build your part number section,

HIGH ROUND BUTTON - ILLUMINATED RING - 1NO/1NC

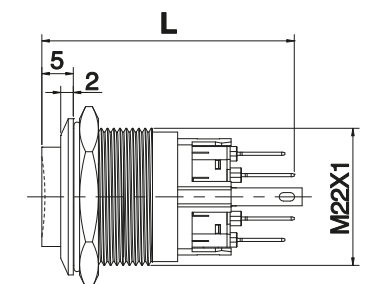
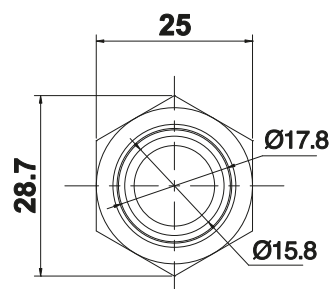


SOAV4JS••

momentary

SOAV4JZS••

maintained



L: Momentary 40.15mm
Maintained 45.5mm

* please choose LED color and voltage in Build your part number section,

SOAV4 series

SECURITY PUSHBUTTON SWITCHES • Ø22MM • UP TO 2NO2NC • LED ILLUMINATED

FLAT BUTTON - ILLUMINATED DOT - 2NO/2NC



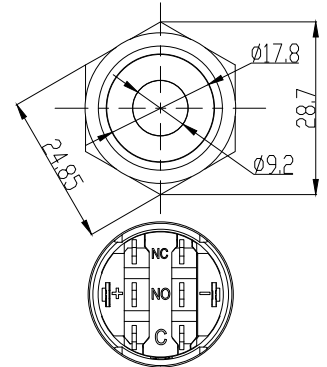
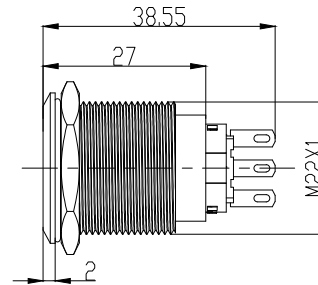
SOAV4D22S••

momentary

SOAV4D22ZS••

maintained

* please choose LED color and voltage in Build your part number section,



ACCESSORIES

QUICK CONNECTOR



SOAC4-6P-15

equiped with 6 wires of 15 cm dedicated to SOAV4 1 Pole Lit

SOAC4-C

non equiped plastic body

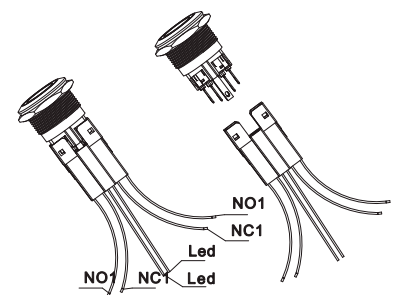
SOAC4-4P-15

equiped with 4 wires of 15 cm dedicated to SOAV4 1 Pole non lit

SOAC3-M

2.8 type female lugs for SOAC4-C

connector is not compatible with the RGB lit version of the pushbutton



U.DESIGN

cablage haute couture



Custom designed wiring
MOQ required

Illuminated customized logo
MOQ required
no technical fees



SECURITY PUSHBUTTON SWITCHES • Ø25MM & Ø30MM • UP TO 2NO2NC • LED ILLUMINATED

🏆 DISTINCTIVE FEATURES

large actuation surface
excellent tactile feedback
illuminated ring
momentary or latched
up to 2NO/2NC form B
3A @ 220 V
specific wiring upon request
specific marking upon request



⚡ ELECTRICAL SPECIFICATIONS

Max voltage : 250 V
Max current/voltage with resistive load :
3 A @ 220Vac / 5A @ 24 Vdc
Initial contact resistance : 50 mΩ max
Insulation resistance : 1000 MΩ mini at 500Vdc
Electrical life : 100.000 cycles at full load
Dielectric strength : 1500 VAC, 50Hz, 50 seconds
LED voltage : see Build you part number section
LED typical life : 40.000 hours

☀ ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -30°C to +85°C
Protection grade to IP67 - frontpanel
Shock resistance : IK10
Compliant with IEC60947-5-1 standard
Compliant with GB14048.5 standard

⚙ MECHANICAL SPECIFICATIONS

Actuation force : from 2 to 5 Newtons
Travel : from 1.5mm to 2.5mm
Mechanical life : 500.000 cycles
Switchbase material : PA66
Body material : see Build you part number section
Button material : see Build you part number section
Lugs material : gold plated copper
Contact material : gold plated silver

≡ GENERAL SPECIFICATIONS

Typical drilling diameter : 25.5mm / 30.5mm
Panel thickness : 12mm max.
Minimum pitch for matrix installation : 30 x 30 mm
Hand soldering : 300°C max. during 5 seconds



SOAV5 series

SECURITY PUSHBUTTON SWITCHES • Ø25MM & Ø30MM • UP TO 2NO2NC • LED ILLUMINATED

BUILD YOUR PART NUMBER

Family: **SOAV** Diameter: **5** Button: **E** Poles: **22** Function: **Z** Connection: **F** Material: **S** Led color: **B** Led voltage: **6**

Diameter

- 5** 25 mm
- 5L** 30 mm

MONO/BI-COLOR

LED mono-color: bottom polarized
LED bi-color: choose color by flipping polarity

RGB

RED (+) COMMON GREEN BLUE

Button / Lighting type

- Flat, non illuminated
- H** High, non illuminated
- B** Domed, non illuminated
- D** Flat, illuminated dot
- E** Flat, illuminated ring
- J** High, illuminated ring
- C** Specific¹

Function

- Momentary
- Z** Latched

Connection

- Solder lugs / Quickconnect
- F** Wires / Cable²

Contact Type

- 1NO1NC
- 22** 2NO2NC

Main material

- S** Stainless steel (std.)
- N** Nickel plated brass³
- A** Anodized aluminum⁴

LED power supply⁵

- Non illuminated
- 6** 6 V
- 12** 12 V
- 24** 24 V
- 110** 110 V
- 220** 220 V

LED color

- No LED
- R** Red
- G** Green
- Y** Yellow
- B** Blue
- W** White
- RB** Red / Blue
- RG** Red / Green
- RGB** RGB Mixing Colors[®]

Mono/Bi color LED

LED LED


Mono color LED : no polarity
Bi-color LED : color change is made through polarity swap

RGB LED

RED (+) COMMON GREEN BLUE

ABOUT THIS RANGE

¹  U.DESIGN service: custom button design upon request, custom marking, **custom illuminated logo** available on request.

²  U.DESIGN service : custom wiring and harness upon request.

³ Nickel plated brass upon request and subject to MOQ.

⁴ Anodized aluminum with custom color upon request and subject to MOQ.

⁵ Built-in protection resistor. Other LED voltages possible upon request. **High brightness LED available on request**

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

SOAV5 series

SECURITY PUSHBUTTON SWITCHES • Ø25MM & Ø30MM • UP TO 2NO2NC • LED ILLUMINATED

CONFIGURATION EXAMPLES

Ø25MM - FLAT BUTTON - NO ILLUMINATION - 1NO/1NC

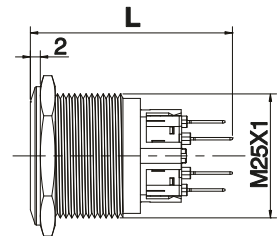
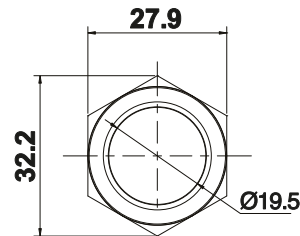


SOAV5S

momentary

SOAV5ZS

maintained



L: J25 Momentary 40.6mm
J25 Maintained 42.25mm

Ø25MM - HIGH ROUND BUTTON - NO ILLUMINATION - 1NO/1NC

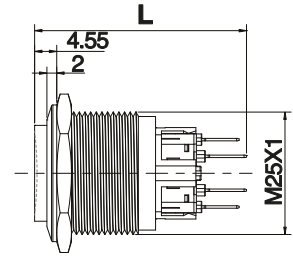
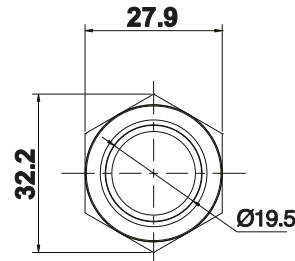


SOAV5HS

momentary

SOAV5HZS

maintained



L: J25 Momentary 43.15mm
J25 Maintained 44.8mm

Ø25MM - FLAT BUTTON - ILLUMINATED DOT - 1NO/1NC

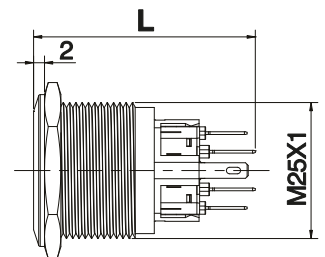
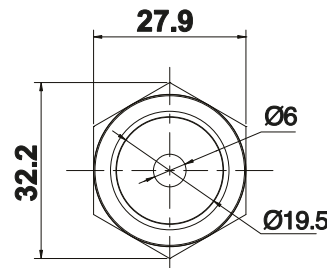


SOAV5DS••

momentary

SOAV5DZS••

maintained



L: Maintained 40.6mm
Maintained 42.25mm

* sélectionner la couleur de la LED ainsi que la résistance dans le CONFIGURATION EXAMPLES

Ø25MM - FLAT BUTTON - RING ILLUMINATED - 1NO/1NC

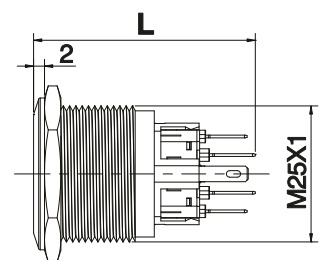
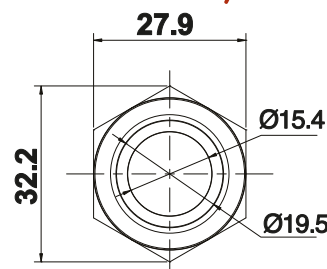


SOAV5ES••

momentary

SOAV5EZS••

maintained



L: Momentary 40.6mm
Maintained 42.25mm

* please choose LED color and voltage in Build your part number section,

SOAV5 series

SECURITY PUSHBUTTON SWITCHES • Ø25MM & Ø30MM • UP TO 2NO/2NC • LED ILLUMINATED

Ø25MM - HIGH ROUND BUTTON - RING ILLUMINATED - 1NO/1NC



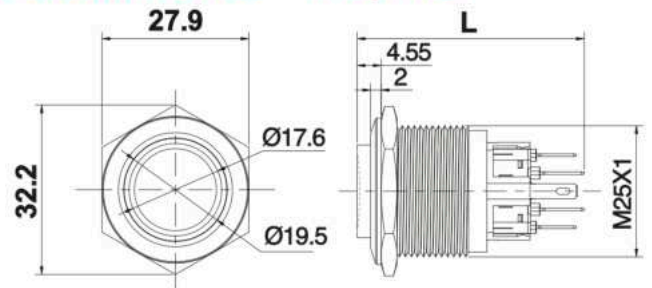
SOAV5JS••

momentary

SOAV5JZS••

maintained

* please choose LED color and voltage in Build your part number section,



L: Momentary 43.15mm
Maintained 44.8mm

Ø30MM - FLAT BUTTON - NO ILLUMINATION - 1NO/1NC

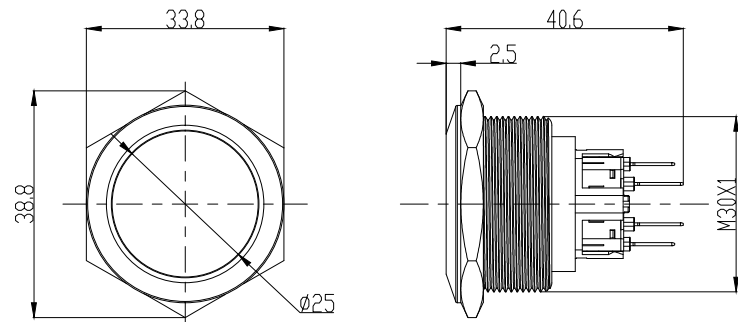


SOAV5LS

momentary

SOAV5LZS

maintained



Ø30MM - FLAT BUTTON - RING ILLUMINATED - 1NO/1NC



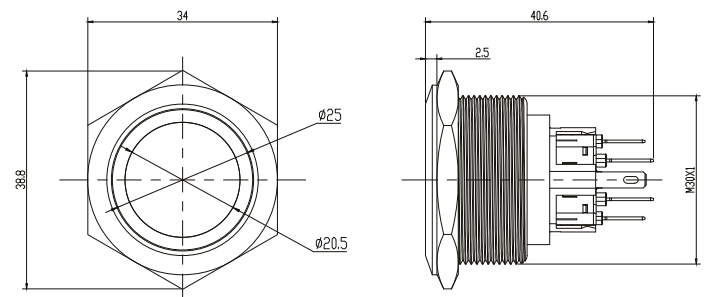
SOAV5LES••

momentary

SOAV5LEZS••

maintained

* please choose LED color and voltage in Build your part number section,



Ø30MM - FLAT BUTTON - ILLUMINATED DOT - 1NO/1NC



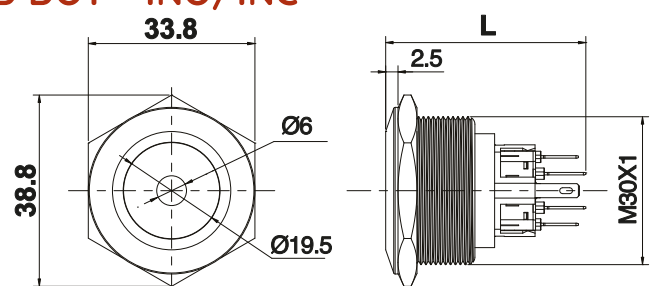
SOAV5LDS••

momentary

SOAV5LDZS••

maintained

* please choose LED color and voltage in Build your part number section,



L: Momentary 40.6mm
Maintained 42.25mm

SOAV5 series

SECURITY PUSHBUTTON SWITCHES • Ø25MM & Ø30MM • UP TO 2NO2NC • LED ILLUMINATED

Ø30MM - HIGH ROUND BUTTON - RING ILLUMINATED - 1NO/1NC



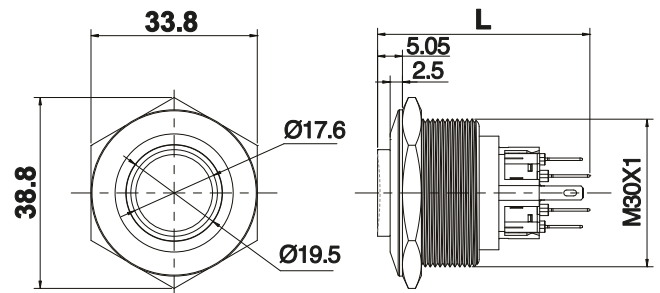
SOAV5LJS••

momentary

SOAV5LJZS••

maintained

* please choose LED color and voltage in Build your part number section,



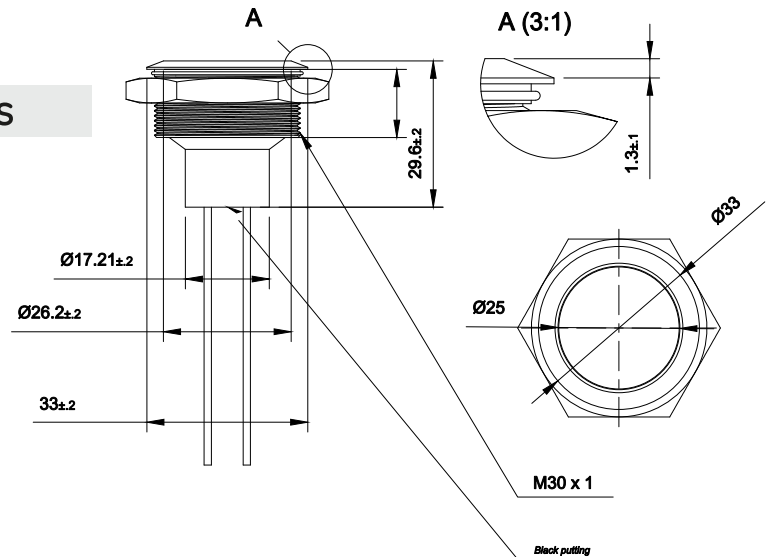
L: Momentary 43.15mm
Maintained 44.8mm

Ø30MM - FLAT BUTTON - TOTALEMENT ÉTANCHE - 1NO



SOAV5LFS

momentary



ACCESSORIES

QUICK CONNECTOR



SOAC5-6P-15

equipped with 6 wires of 15 cm dedicated to SOAV4 1 Pole Lit

SOAC5-4P-15

equipped with 4 wires of 15 cm dedicated to SOAV4 1 Pole non lit

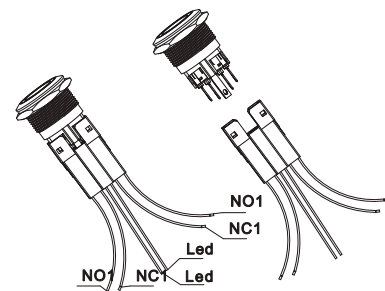
connector is not compatible with the RGB lit version of the pushbutton

SOAC5-C

non equipped plastic body

SOAC3-M

2.8 type female lugs for SOAC4-C



U.DESIGN

cablage haute couture



Custom designed wiring
MOQ required

Illuminated customized logo
MOQ required
no technical fees



SECURITY PUSHBUTTON SWITCHES • Ø40MM • UP TO 4NO4NC • LED ILLUMINATED

DISTINCTIVE FEATURES

large actuation surface
excellent tactile feedback
illuminated ring
momentary or latched
up to 4NO/4NC form B
3A @ 220 V
specific wiring upon request
specific marking upon request



ELECTRICAL SPECIFICATIONS

Max voltage : 250 V
Max current/voltage with resistive load :
3 A @ 220Vac / 5A @ 24 Vdc
Initial contact resistance : 50 mΩ max
Insulation resistance : 1000 MΩ mini at 500Vdc
Electrical life : 100.000 cycles at full load
Dielectric strength : 1500 VAC, 50Hz, 50 seconds
LED voltage : 6, 12, 24 ou 48V
LED typical life : 40.000 hours

ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -30°C to +85°C
Protection grade to IP67 - frontpanel
Shock resistance : IK10
Compliant with IEC60947-5-1 standard
Compliant with GB14048.5 standard

MECHANICAL SPECIFICATIONS

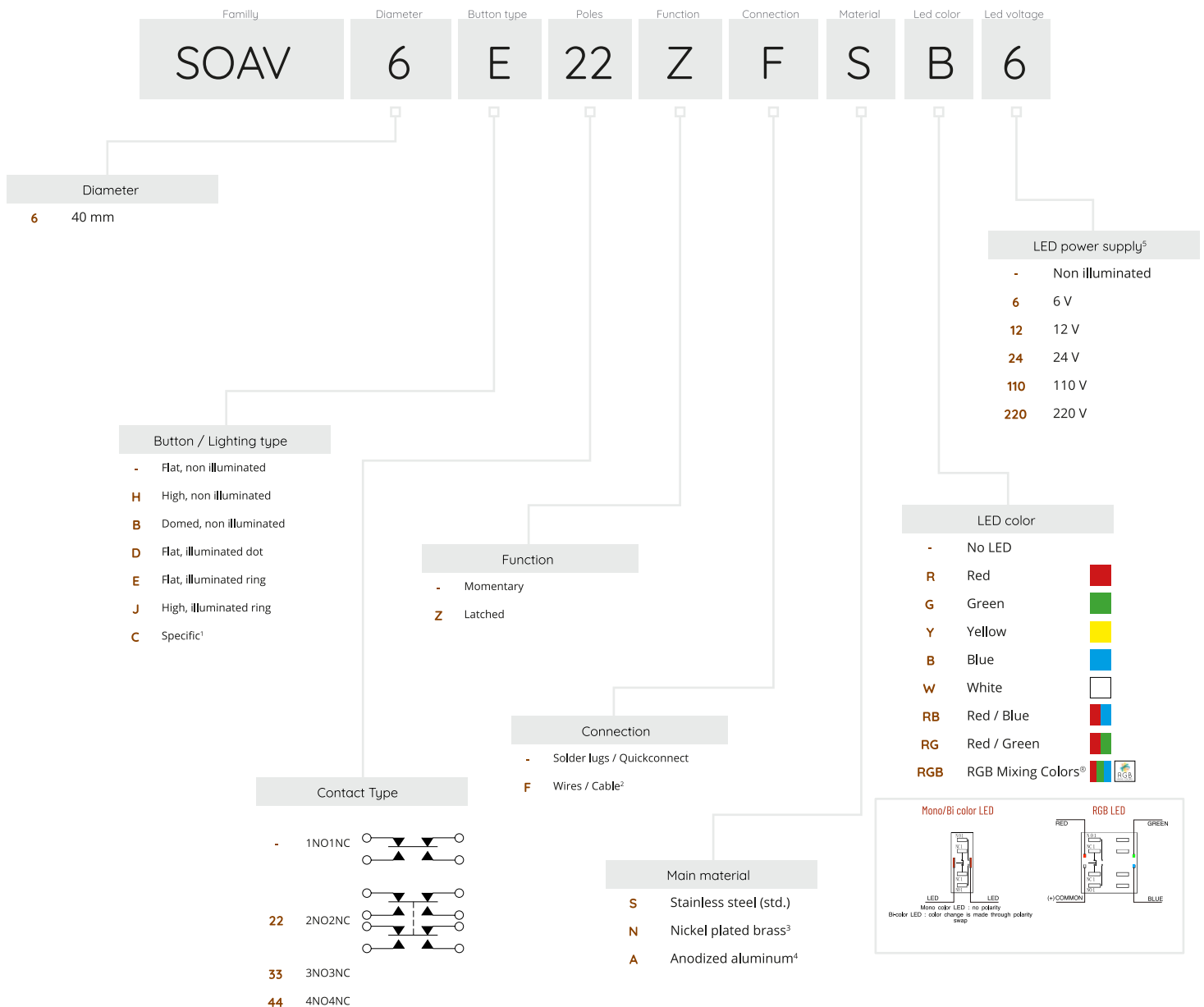
Actuation force : from 2 to 5 Newtons
Travel : from 1.5mm to 2.5mm
Mechanical life : 500.000 cycles
Switchbase material : PA66
Body material : stainless steel 304
Button material : stainless steel 316
Lugs material : gold plated copper
Contact material : gold plated silver

GENERAL SPECIFICATIONS

Typical drilling diameter : 40.5mm
Panel thickness : 12mm max.
Minimum pitch for matrix installation : 44 x 44 mm
Hand soldering : 300°C max. during 5 seconds




SECURITY PUSHBUTTON SWITCHES • Ø40MM • UP TO 4NO4NC • LED ILLUMINATED

 BUILD YOUR PART NUMBER

ABOUT THIS RANGE

¹ U.DESIGN service: custom button design upon request, custom marking, **custom illuminated logo** available on request.

²  U.DESIGN service : custom wiring and harness upon request.

³ Nickel plated brass upon request and subject to MOQ.

⁴ Anodized aluminum with custom color upon request and subject to MOQ.

⁵ Built-in protection resistor. Other LED voltages possible upon request. **High brightness LED available on request**

Our pushbutton switches are delivered with their nickel plated brass hex nuts as well as their gasket.

**FOR ALL YOUR CUSTOM
REQUESTS, CONTACT US !**
sales@kynoppe.com

SOAV6 series

SECURITY PUSHBUTTON SWITCHES • Ø40MM • UP TO 4NO/1NC • LED ILLUMINATED

CONFIGURATION EXAMPLES

FLAT BUTTON - NON ILLUMINATED - 1NO/1NC

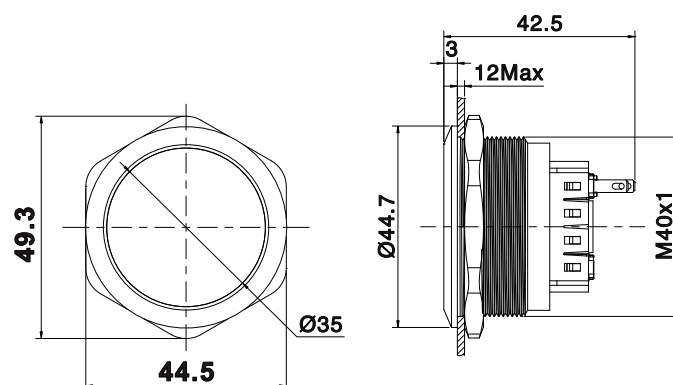


SOAV6S

momentary

SOAV6ZS

latched



DOMED BUTTON - NON ILLUMINATED - 1NO/1NC

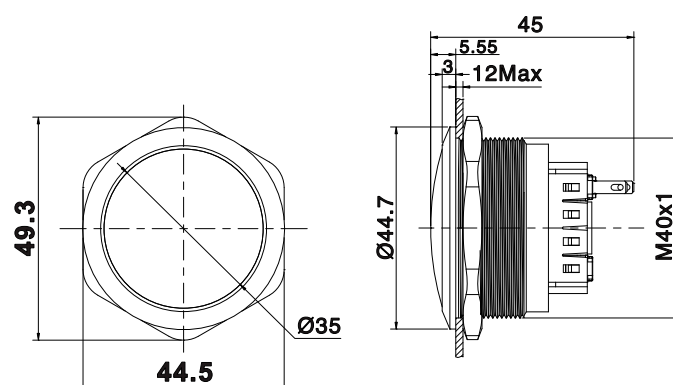


SOAV6BS

momentary

SOAV6BZS

latched



HIGH BUTTON - NON ILLUMINATED - 1NO/1NC

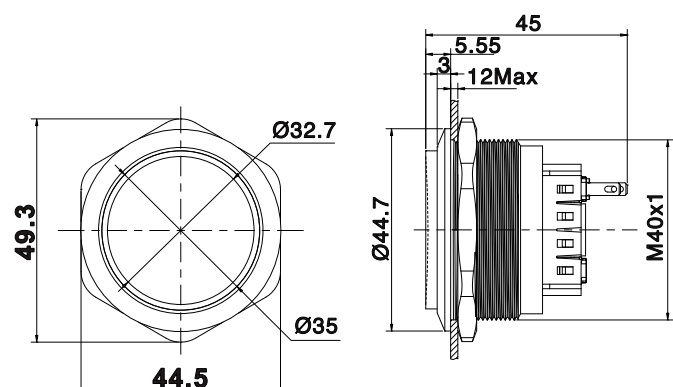


SOAV6HS

momentary

SOAV6HZS

latched



SOAV6 series

SECURITY PUSHBUTTON SWITCHES • Ø40MM • UP TO 4NO/4NC • LED ILLUMINATED

FLAT BUTTON - ILLUMINATED DOT - 1NO/1NC



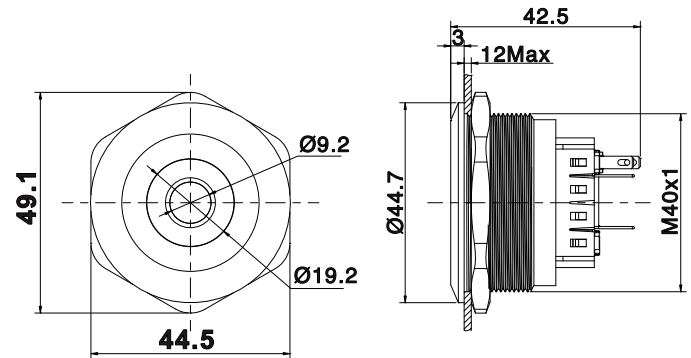
SOAV6DS••

momentary

SOAV6DZS••

latched

• please choose LED color and voltage in Build your part number section, when LED is off, central dot is without color



FLAT BUTTON - ILLUMINATED RING - 1NO/1NC



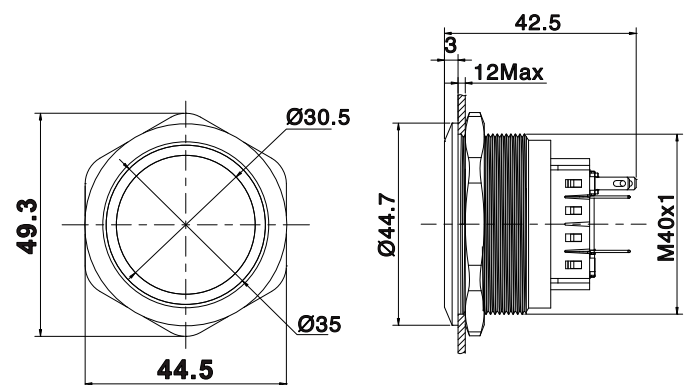
SOAV6ES••

momentary

SOAV6EZS••

latched

• please choose LED color and voltage in Build your part number section, when LED is off, ring is without color



HIGH BUTTON - ILLUMINATED RING - 1NO/1NC



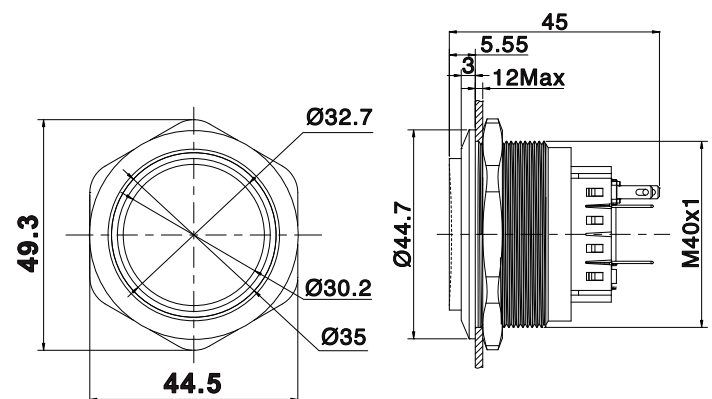
SOAV6JS••

momentary

SOAV6JZS••

latched

• please choose LED color and voltage in Build your part number section, when LED is off, ring is without color



SOAV6 series

SECURITY PUSHBUTTON SWITCHES • Ø40MM • UP TO 4NO/4NC • LED ILLUMINATED

FLAT BUTTON - RGB ILLUMINATED RING - 2NO/2NC



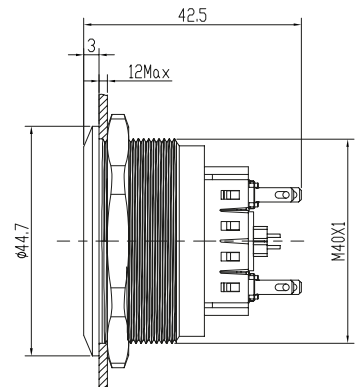
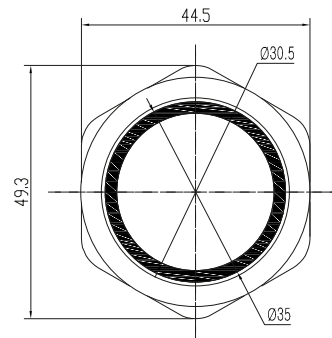
SOAV6E22SRGB•

momentary

SOAV6E22ZSRGB•

latched

choose voltage in Build your part number section,
D is off, central dot is without color



FLAT BUTTON - ILLUMINATED RING - 1NO/1NC

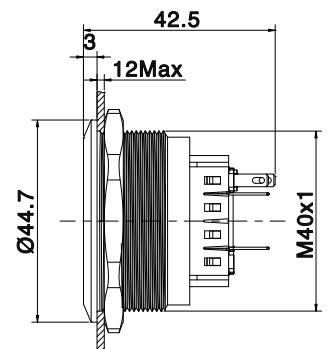
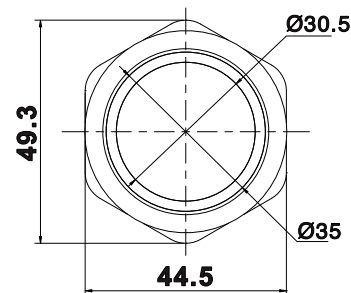


SOAV6EA•-X01

Momentary,

dark grey anodized aluminum

* please choose voltage in Build your part number section,
when LED is off, central dot is without color



U.DESIGN

cablage haute couture



Custom designed wiring
MOQ required

Illuminated customized logo
MOQ required
no technical fees



MINIATURE PUSHBUTTON SWITCHES • DIA. 13.6MM

🏆 DISTINCTIVE FEATURES

recognized compact design

IP67 & IP68

illuminated versions

momentary or latched

extra-long lifecycle

specific wiring

specific marking

⚡ ELECTRICAL SPECIFICATIONS

Max current with resistive load :

Plastic body, momentary :

400mA @ 32Vac • 100mA @50 Vdc • 125mA @ 125 Vac

Metal body, momentary :

500mA @ 48 Vac • 200mA @ 50 Vdc • 200mA @ 250 Vac

Plastic body, latched :

2A @ 125 Vac • 100mA @ 24Vdc

Electrical lifecycle :

Momentary : 500.000 cycles at full load

Latched : 200.000 cycles (100mA) • 10.000 cycles (2A)

Contact type : NO or NC

Initial contact resistance : 50mΩ max

Insulation resistance : 1 GΩ mini, DC500V

Dielectric strength :

Plastic body 1000 Vac rms • Metal body 1500 Vac rms

LED typical power supply (@20mA) : see Build Your Part Number section

LED typical lifecycle : 40.000 hours

☀ ENVIRONMENTAL SPECIFICATIONS

Operating temperature : -30°C to +85°C

Ingress protection : IP67 (SOAT12) • IP68 (SOAT68)

Compliant with IEC60947-5-1

⚙ MECHANICAL SPECIFICATIONS

Actuation force : from 2 to 5 Newtons

Travel : 1.5 mm

Contact bounce : 10ms

Mechanical lifecycle : 1.000.000 cycles

Materials :

Contact base : P.C.

Contact : gold plated silver

Body : diallyl phthalate (DAP UL94v0) • Zinc-Alloy

Key : polyamid 6/6 (PA66)

Solder terminals : gold plated copper

Wires : stranded AWG20, 0.6mm² UL approved

Torque applied to nut :

Plastic body : 0.5Nm

Metal body : 1.5Nm

≡ GENERAL SPECIFICATIONS

Typical installation size : 13.6 mm

Panel thickness :

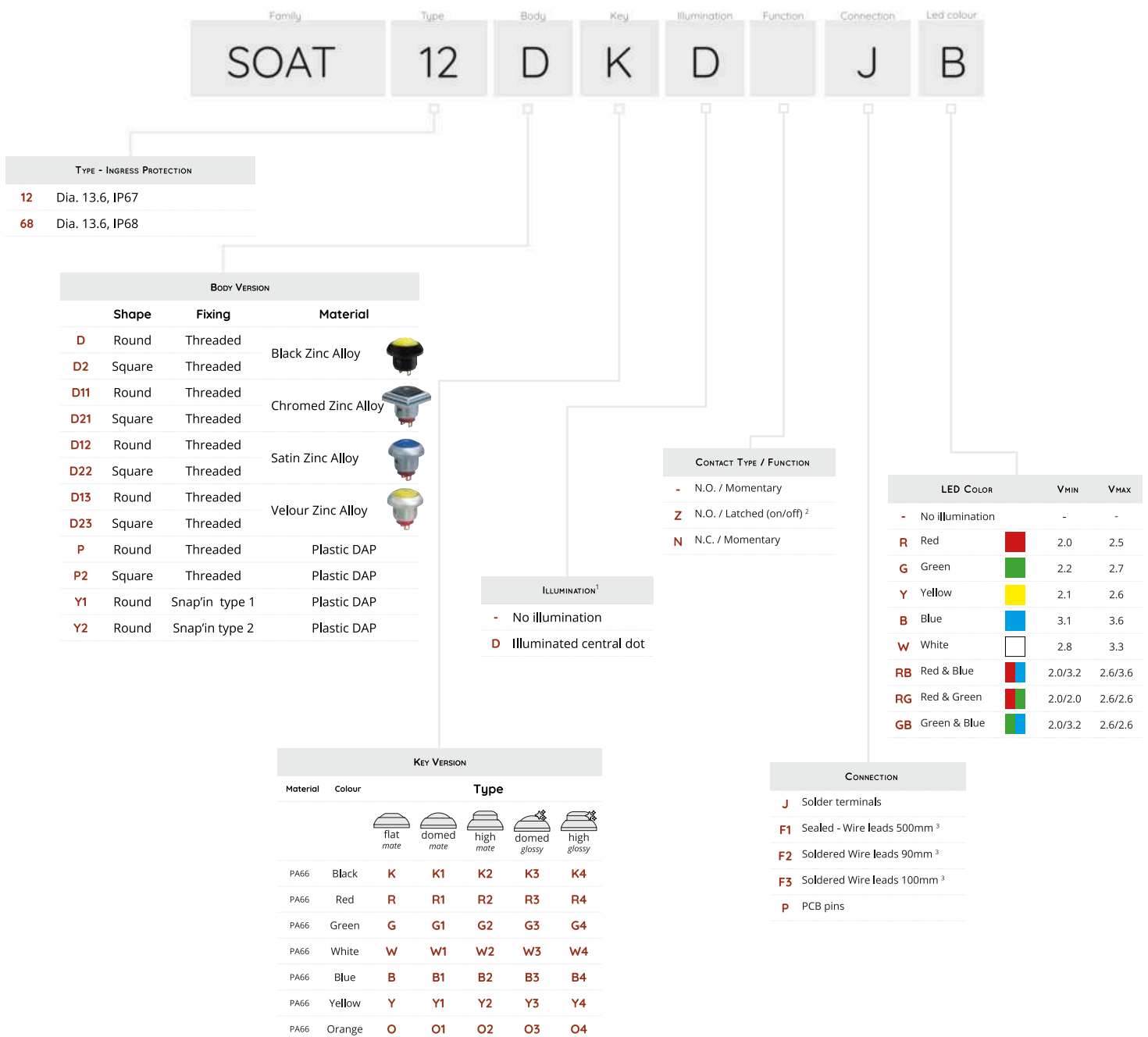
Snap-in Y1 body : 0.8 mm ~ 1.8 mm

Snap-in Y2 body : 3 mm, ±0.25mm

Threaded body: 1.5 mm ~ 4 mm

Soldering profile : 300°C max. during 5 seconds max.

BUILD YOUR PART NUMBER



ABOUT THIS RANGE

¹ Illumination only available for IP67 version with flat button.

² NO Latched version only available with plastic body.

³ Wire leads versions fully customisable on request.

Our pushbuttons are supplied with their hex nut and washer.

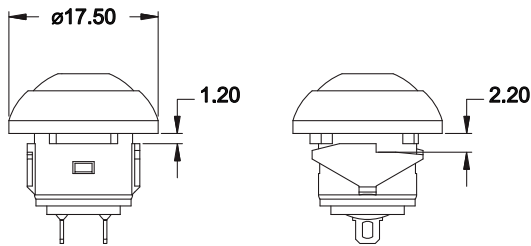
⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@kynoppe.com

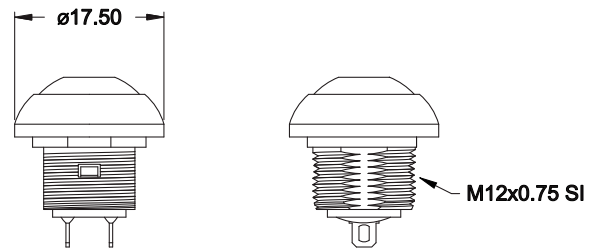
BUILD YOUR PART NUMBER - DETAILS

BODY VERSIONS

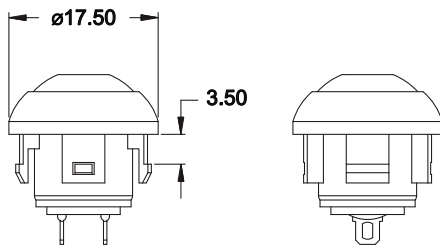
Y1 Snap'in 1 Plastic DAP (round)



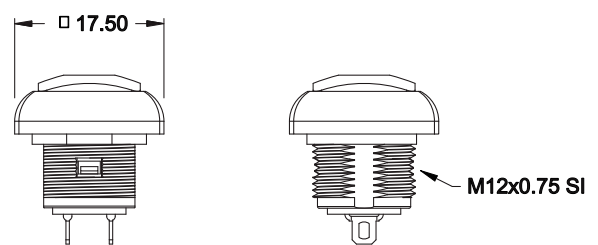
N // D / P Threaded, round



Y2 Snap'in 2 Plastic DAP (round)

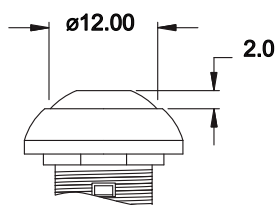


D2 / P2 Threaded, squared

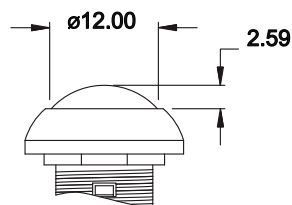


BUTTON VERSIONS

Flat button

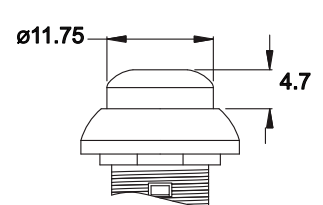


Domed button



only available with bodies D, P, S, S2

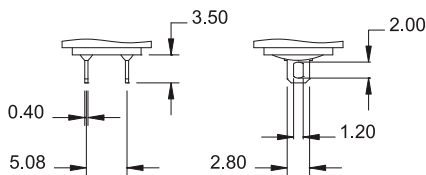
High round button



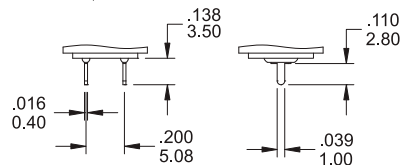
only available with bodies D, P

CONNECTION OPTIONS

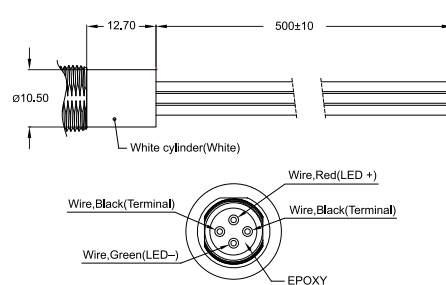
J Solder Terminals



P PCB pins

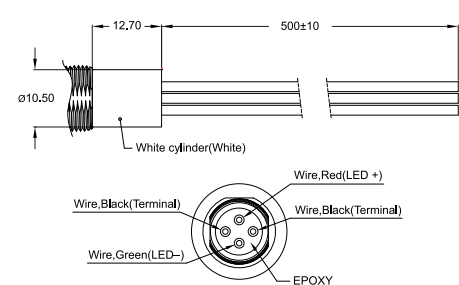


F1 Wire leads 500mm



Multi-wire lead AWG20, section 0.6mm², UL approved. (Black / Green / Red)

F2 / F3 Wire leads 90mm & 100mm



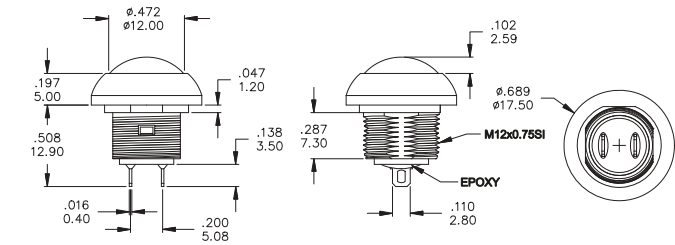
CONFIGURATION EXAMPLES

NO ILLUMINATION - NO - MOMENTARY



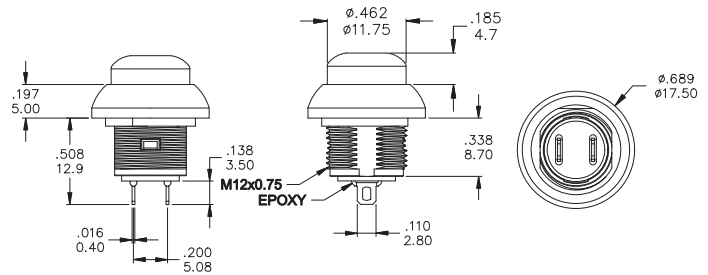
SOAT68PK3J

IP68, Glossy PA66 key, black body, solder terminals



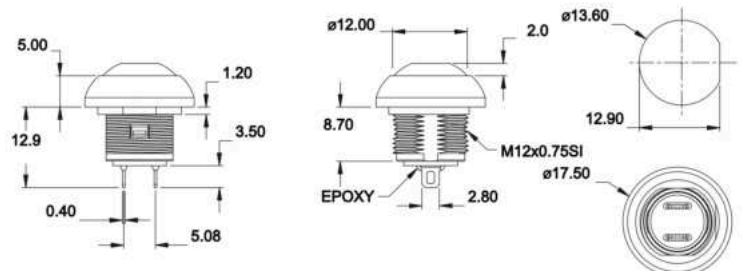
SOAT12PK2J

PA66 High round key, black zinc alloy body, solder terminals



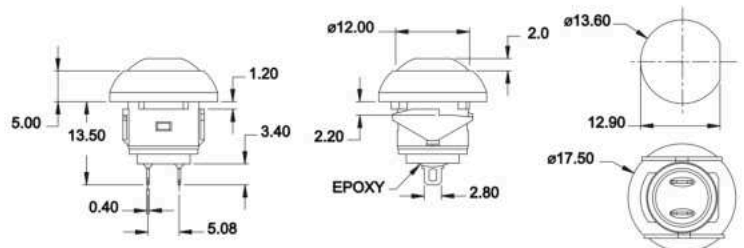
SOAT12DKJ

PA66 button, Zinc alloy body, solder terminals



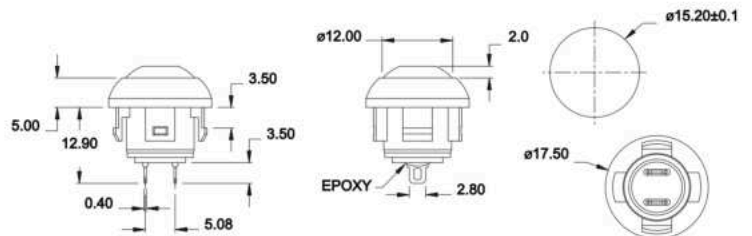
SOAT12Y1BJ

PA66 button, plastic snap'in 1 body, solder terminals



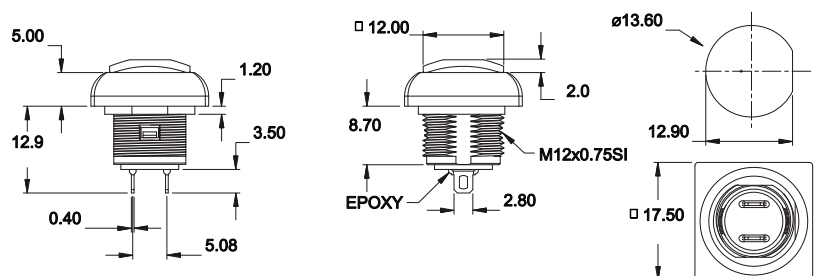
SOAT12Y2RJ

PA66 button, plastic snap'in 2 body, solder terminals



SOAT12D2KJ

PA66 button, Zinc alloy body, solder terminals



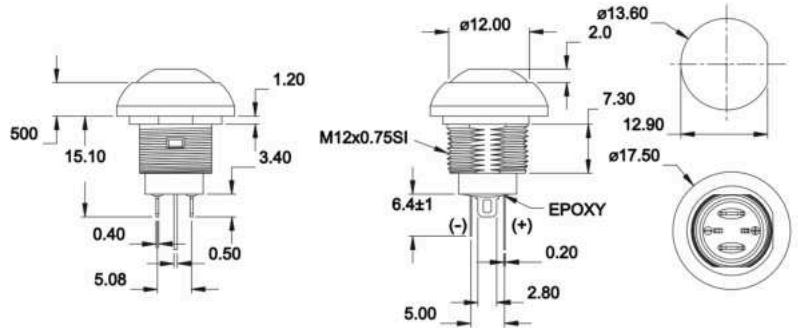
ILLUMINATED - NO



SOAT12DKDJ•

PA66 button, Zinc alloy body, **momentary**, solder terminals

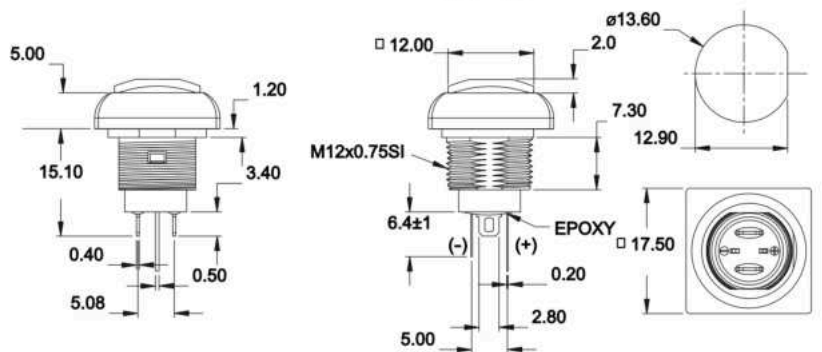
* please select LED color in Build Your Part Number section



SOAT12D2KDJ•

PA66 button, Zinc alloy body, **momentary**, solder terminals

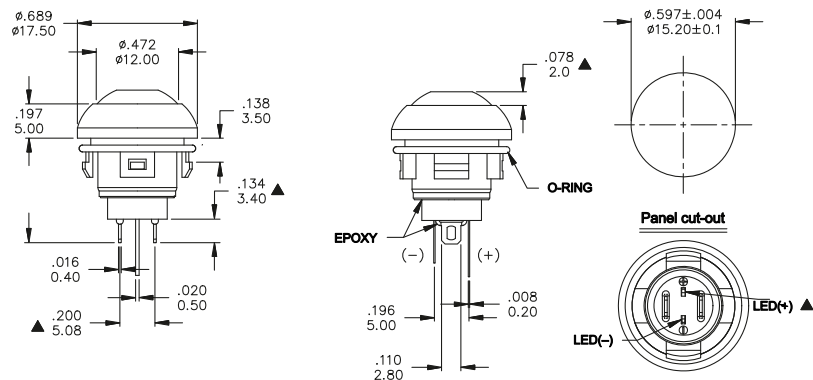
* please select LED color in Build Your Part Number section



SOAT12Y2KDJ•

PA66 black button, snap'in 2 PA black body, **momentary**, solder terminals

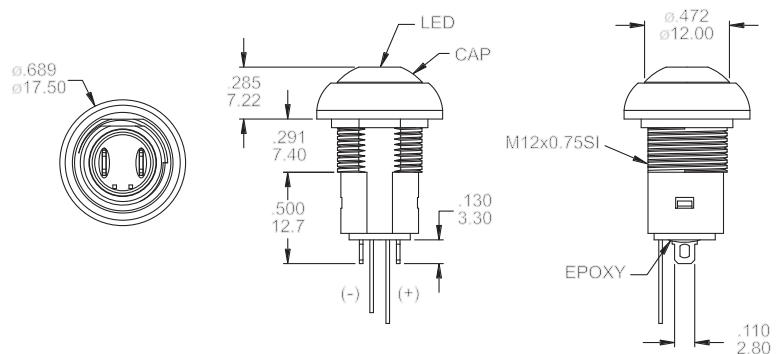
* please select LED color in Build Your Part Number section



SOAT12PRDZJ•

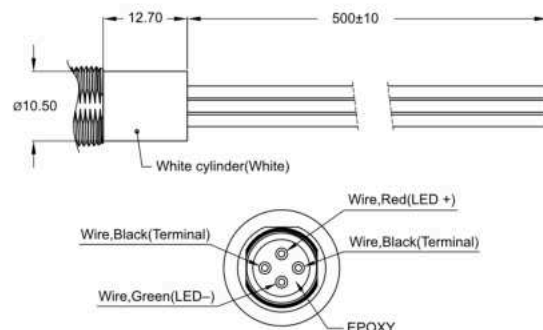
PA66 red button, PA black body, **alternate**, solder terminals

* please select LED color in Build Your Part Number section

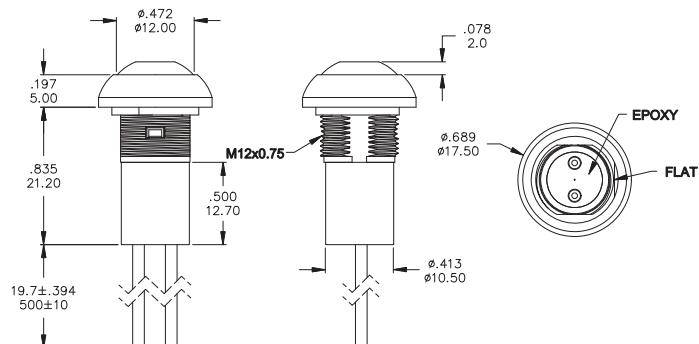


PA66 button, plastic body ,
500mm wires

* please select LED color in Build Your Part Number section



touche en PA66, corps PA noir, sortie fils
500mm

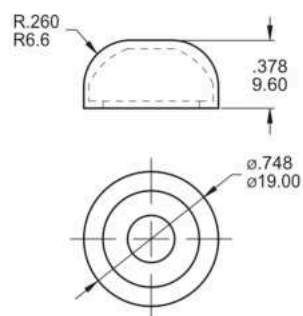


add this extra silicon cap to bring ingress protection grade up to IP68 level



- Available Colors

- 9 Transparent
- R Red
- K Black



cablage haute couture



custom designed harness on a SOAT12D13WF

MINIATURE PUSHBUTTON SWITCHES • Ø16MM • NONC

DISTINCTIVE FEATURES

great tactile feedback
momentary action
NONC contact form Z
10A @ 250 V
custom wiring on request
IP67



ELECTRICAL CHARACTERISTICS

Max voltage : 250 Vac
Max current with resistive load :
10A @ 70°C

Initial contact resistance : 25 mΩ
Insulation resistance : 1000 MΩ mini at 500Vdc
Electrical life :
50.000 cycles under 10A @ 250 Vac
100.000 cycles under 7A @ 250 Vac
Dielectric strength : 1000 VAC, 50Hz, 60 seconds

ENVIRONMENTAL CHARACTERISTICS

Operation temperature range = from -40°C to +85°C
Front panel ingress protection : IP67
Rear panel ingress protection : IP40
Compliant with standard IEC1058-1

MECHANICAL CHARACTERISTICS

Actuation force : 390g. max
Pre-travel : 1.3mm
Over travel : 0.15mm
Travel : 2.3mm

Mechanical life : 500.000 cycles mini.
Body material : thermoplastic UL94V0
Contact material : silver alloy / gold plated silver alloy

GENERAL CHARACTERISTICS

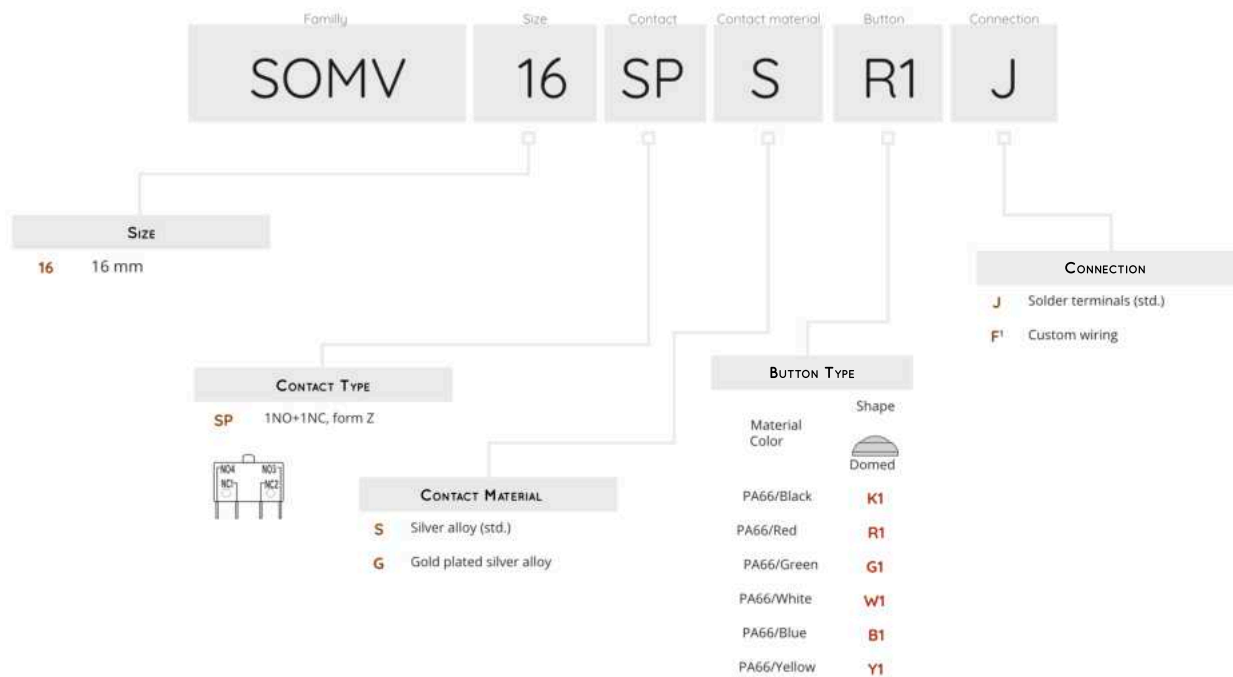
Installation size : 16/14.45 mm d-flat
Panel thickness : 5mm max.
Matrix installation size : 24 x 24 mm
Soldering profile : 300°C max. during 5 seconds



SOMV16 Series

MINIATURE PUSHBUTTON SWITCHES • Ø16MM • NONC

BUILD YOUR PART NUMBER



ABOUT THIS RANGE

¹  U.DESIGN service : Wire leads versions fully customisable on request.

Our pushbuttons are supplied with their hex nut and washer.

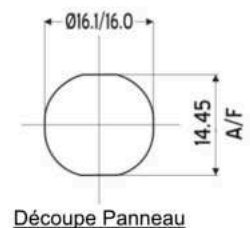
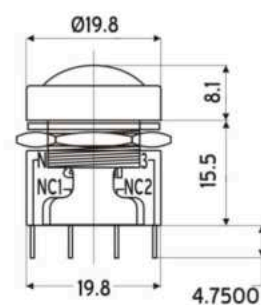
CONFIGURATION EXAMPLES

DOMED BUTTON - NO ILLUMINATION - SOLDER TERMINALS



SOMV16SPSB1J

Ag contacts. standard, blue button



ACCESSORIES



80-599216

IP68 ingress protection silicon cap

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@kynoppe.com

MINIATURE PUSHBUTTON SWITCHES • Ø16MM • NONC



DISTINCTIVE FEATURES

resistant to freeze, dust and hydrocarbons

IP67 ingress protected

NONC contact form C

ELECTRICAL CHARACTERISTICS

Current rating : 2A / 24Vdc

Initial contact resistance : 100mΩ max @ 1A/12Vdc

Insulating resistance : 100 MΩ min, DC500V

Dielectric strength : 500Vrms, 60secs, sea level

Contact type : OFF-(ON) / SPDT, NO, NC

Electrical life : 100.000 cycles at full load

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range : from -20°C to +65°C

Ingress protection : IP67

MECHANICAL CHARACTERISTICS

Actuation force : 7N, ±2N

Travel : 1,5mm, ±0,3mm

Materials :

Body : Nylon 6/6

Button : Polyurethane coated stainless steel

Wire leads UL3385, AWG20 L500mm

Mechanical life : 1.000.000 cycles

GENERAL CHARACTERISTICS

Installation size : 16,5 mm

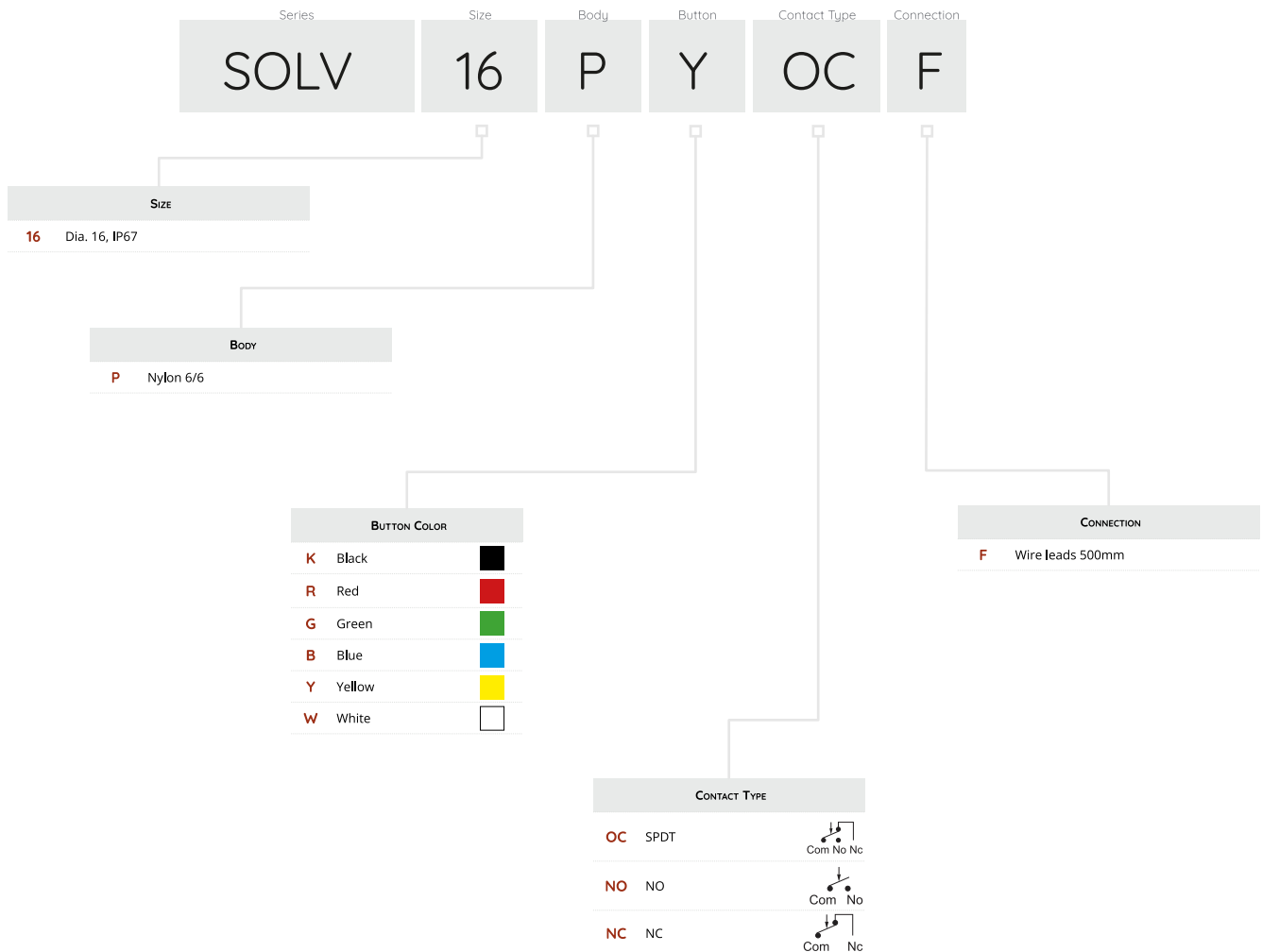
Panel thickness : 18,5 mm max.

SOLV16 Series

MINIATURE PUSHBUTTON SWITCHES • Ø16MM • NONC



BUILD YOUR PART NUMBER



ABOUT THIS RANGE

Our pushbuttons are supplied with their hex nut and washer.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

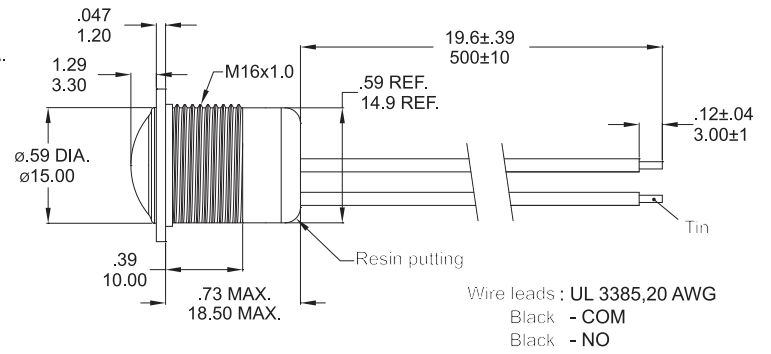
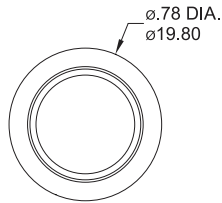


FOR ALL YOUR CUSTOM
REQUESTS, CONTACT US !
sales@hynoppe.com

CONFIGURATION EXAMPLES

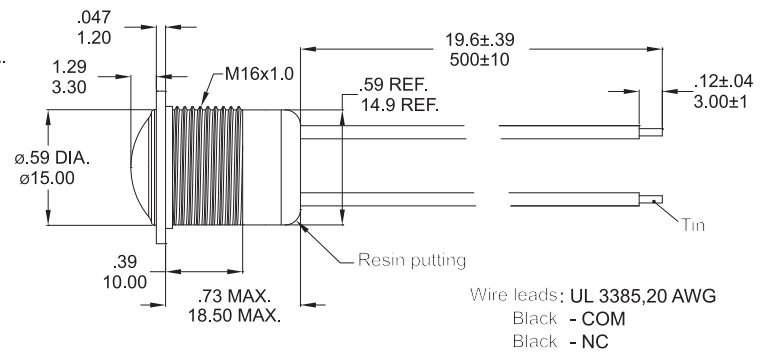
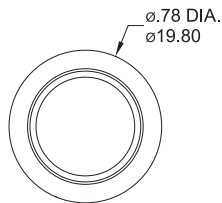
NO - MOMENTARY

SOLV16PBNof



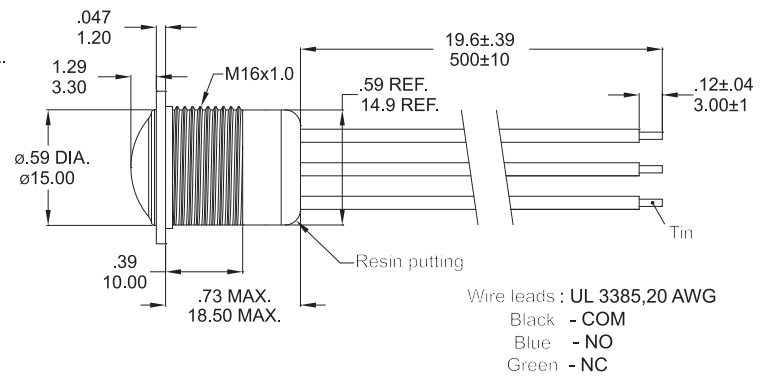
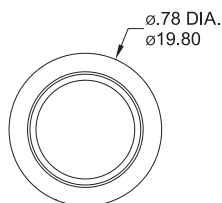
NC - MOMENTARY

SOLV16PBNof



NONC / SPDT - MOMENTARY

SOLV16PBNof



LOW PROFILE EMERGENCY MUSHROOMS • DIA.16MM

DISTINCTIVE FEATURES

ratings : 250Vac/dc

IP65

Low profile, easy installation



ELECTRICAL CHARACTERISTICS

Max voltage : 250 Vac/dc

Thermal current : 5 A

Nominal current : AC-15 0.75A/250V DC-13 1A/30V

Contact types : 1NC, 2NC, 1NO or 1NO+1NC

Initial contact resistance : 50mΩ max

Insulation resistance : 100 MΩ min, DC500V

Electrical life : 10.000 cycles (0.7A/220Vac)

Dielectric strength : 1500VAC, 60secs

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range : from -20°C to +55°C

Impact rating : >10g

Ingress protection : IP65

Vibrations resistance : 50Hz ~1.2mm

Compliant with IEC60947-2001

MECHANICAL CHARACTERISTICS

Contact : gold plated silver

Terminals : QuickConnect or solder

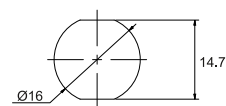
Mechanical life : 1.00.000 cycles

Action : push, turn to release

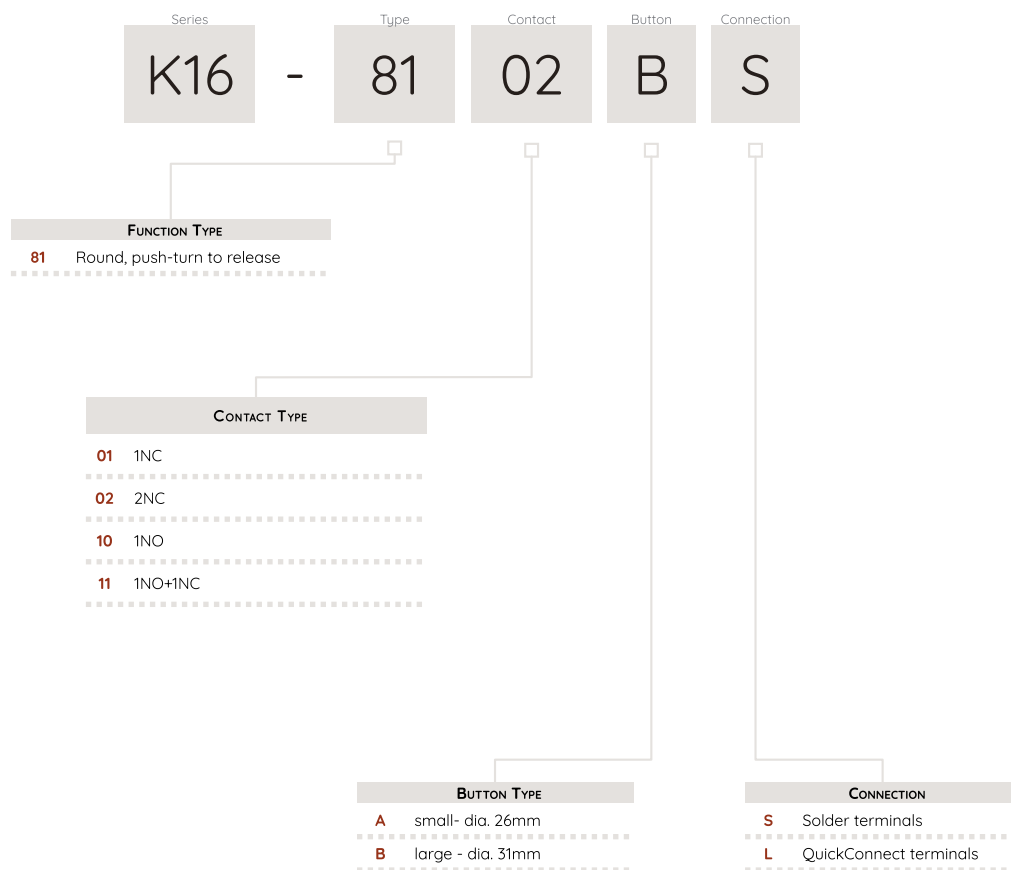
GENERAL CHARACTERISTICS

Installation size : 16.5 mm

Panel thickness : from 0.8 to 4.5mm



BUILD YOUR PART NUMBER



ABOUT THIS RANGE

Our pushbuttons are supplied with their hex nut and washer.

FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@hynoppe.com

CONFIGURATION EXAMPLES

DIA.16MM - SMALL BUTTON - SOLDER TERMINALS

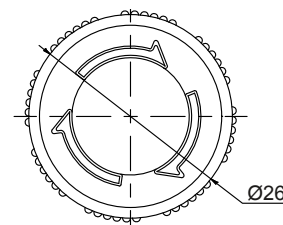
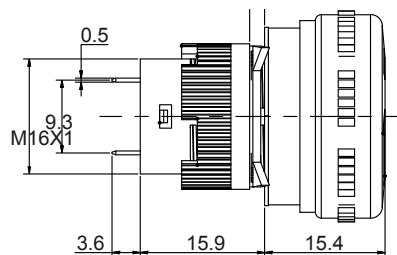


K16-8102AS

2NC

K16-8111AS

1NO+1NC



DIA.16MM - LARGE BUTTON - SOLDER TERMINALS

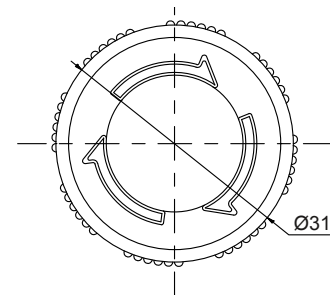
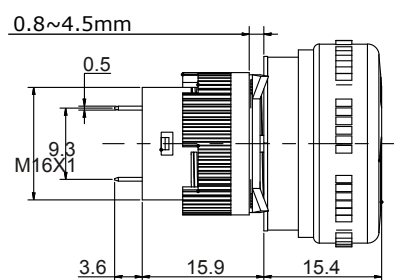


K16-8102BS

2NC

K16-8111BS

1NO+1NC



DIA.16MM - SMALL BUTTON - QUICKCONNECT TERMINALS

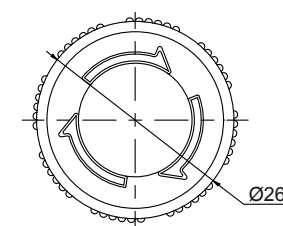
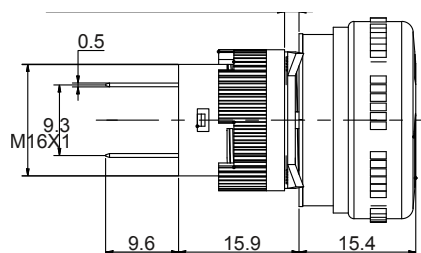


K16-8102AL

2NC

K16-8111AL

1NO+1NC



DIA.16MM - LARGE BUTTON - QUICKCONNECT TERMINALS

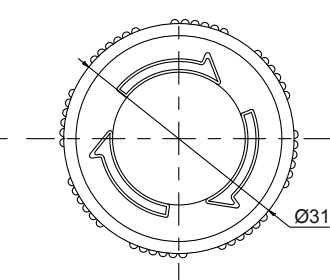
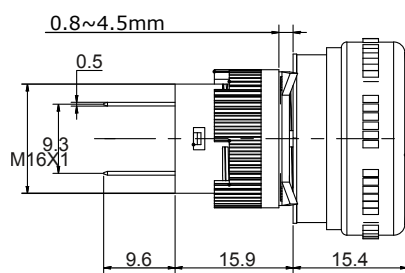


K16-8102BL

2NC

K16-8111BL

1NO+1NC



LOW PROFILE EMERGENCY MUSHROOMS • DIA.22MM

DISTINCTIVE FEATURES

ratings : 5A - 250Vac/dc

IP65

14,3mm **ultra-low profile**

illuminated



ELECTRICAL CHARACTERISTICS

Max current : 250 Vac

Thermal current : 5 A

Minimum applicable load : 1 mA - 5Vac/dc

Contact types : 1NC, 1NO, 2NC or 1NO+1NC

Initial contact resistance : 50mΩ max

Insulation resistance : 100 MΩ min, DC500V

Electrical life : 100.000 cycles (0.5A/250Vac)

Dielectric strength : 2500VAC, 60secs

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range : from -25°C to +60°C

Ingress protection : IP65

Vibration resistance : 50Hz ~1.2mm

Equipment category : Class 3

Complies with general rules for low voltage switchgear :
IEC60947-2001 GB 14048.1

Control circuit devices and switching elements :
IEC60947-5-1-2003 GB 14048.5.

MECHANICAL CHARACTERISTICS

Actuation force : 17N ±4

Mechanical life : 100.000 cycles

Action : push, turn to release

Contact : gold plated silver

Terminals : 2.8 solder terminals or wire leads

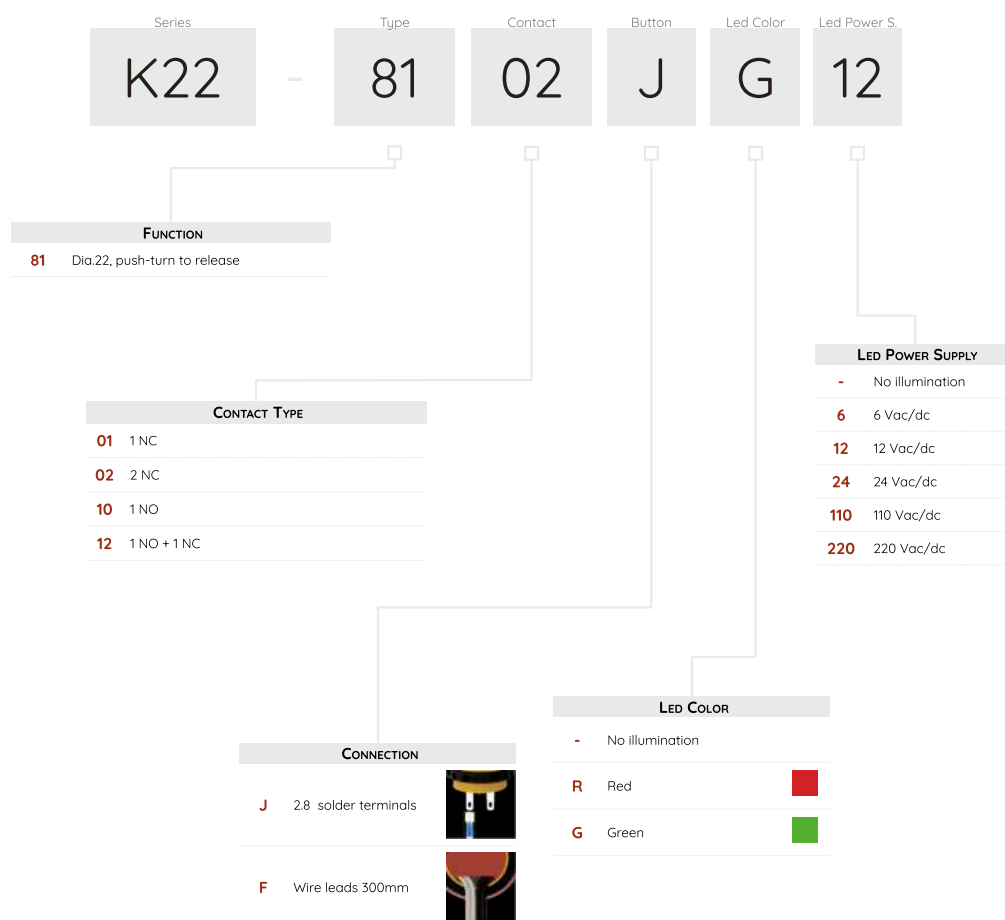
GENERAL CHARACTERISTICS

Installation size : 22.3 mm

Panel thickness : from 1 to 4.0mm



BUILD YOUR PART NUMBER



ABOUT THIS RANGE

Our pushbuttons are supplied with their hex nut and washer.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

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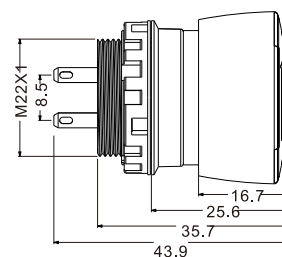
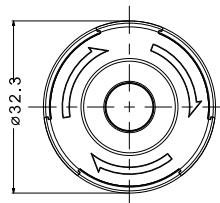
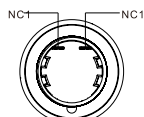
CONFIGURATION EXAMPLES

DIA.22MM - SOLDER TERMINALS - NO ILLUMINATION



K22-8101J

1NC

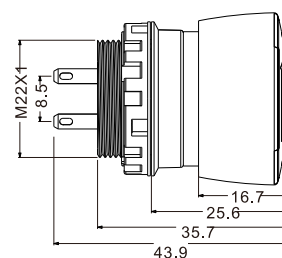
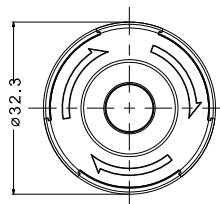
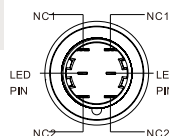


DIA.22MM - SOLDER TERMINALS - LED ILLUMINATED



K22-8102J

2NC, integrated LED



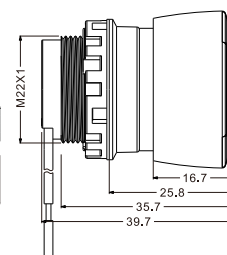
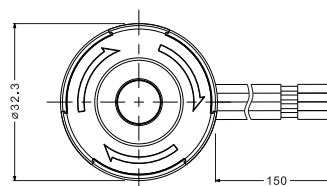
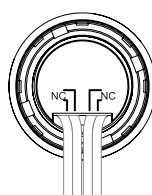
• select the color of the LED as well as the power supply in the build your part number section

DIA.22MM - WIRE LEADS - NO ILLUMINATION



K22-8102F

2NC



LED INDICATORS • WIRE LEADS TERMINALS
ø6 • ø8 • ø10 • ø12



🏆 DISTINCTIVE FEATURES

shiny, mat or black finishing

Wires leads terminals

power supply from 2V to 220V


IP67 protection grade

specific wiring upon request

⚡ ELECTRICAL CHARACTERISTICS

LED POWER SUPPLY	OPERATING VOLTAGE (Min to Max)	TYPICAL CURRENT
2 VDC (NO RESISTOR)	1,8 to 2,5 VDC	20 mA
6 VDC	5,8 to 6,5 VDC	20 mA
12 VDC	10,8 to 13,2 VDC	20 mA
24 VDC	21,6 to 26,4 VDC	20 mA
110 VAC	99 to 121 VAC	6 mA
220 VAC	207 to 253 VAC	3 mA

Max forward voltage : 5 V

LED circuit diagram : a —  b

☀ ENVIRONMENTAL CHARACTERISTICS






Operating temperature = from -40°C to +85°C

Typical LED life : 50.000 hours

Protection grade : IP67
Impact rating : IK10

Vision angle : from 30° to 100°

👁 VISUAL CHARACTERISTICS

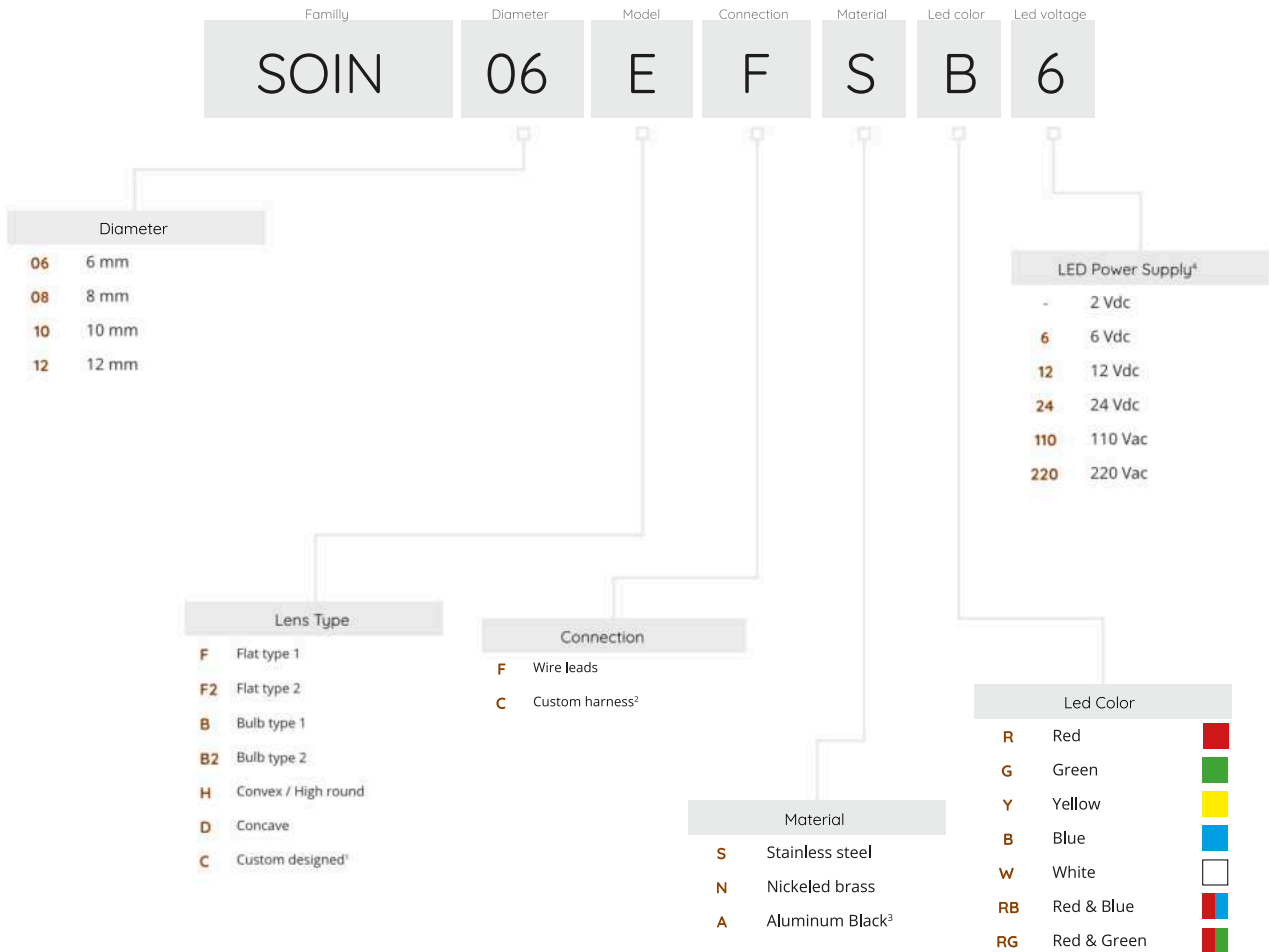
LED COLOR	PROMINENT INTENSITY	FLUSH INTENSITY
R Red 	7500 mcd	2000 mcd
G Green 	4100 mcd	250 mcd
Y Yellow 	2500 mcd	350 mcd
B Blue 	1300 mcd	300 mcd
W White 	1900 mcd	200 mcd

Luminous Intensity will be reduced with lower operating current

Series SOIN_F


LED indicators • wire leads terminals • Ø6 • Ø8 • Ø10 • Ø12

BUILD YOUR PART NUMBER



ABOUT THIS RANGE

¹ service  U.DESIGN : custom design of lens on request.

² service  U.DESIGN : custom harness of our indicators following your technical pre-requisite.

³ Black anodised aluminum only available for SOIN08F1

⁴ Internal resistor. Other voltage available on request. MOQ and conditions apply

Our LED indicators are supplied with hex or knurled nut and washer.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

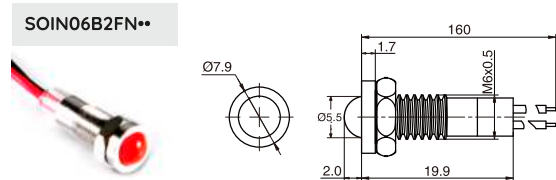
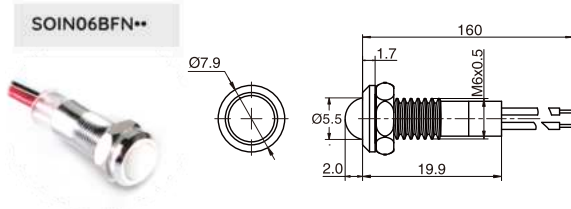
FOR ALL YOUR CUSTOM REQUESTS, CONTACT US !
sales@kynoppe.com

Series SOIN_F

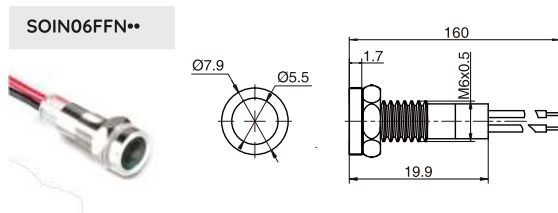
LED indicators • wire leads terminals • Ø6 • Ø8 • Ø10 • Ø12

CONFIGURATION EXAMPLES

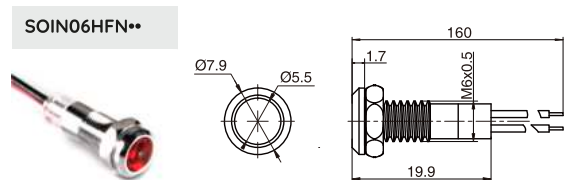
Ø6MM - BULB LENS - NICKELED BRASS



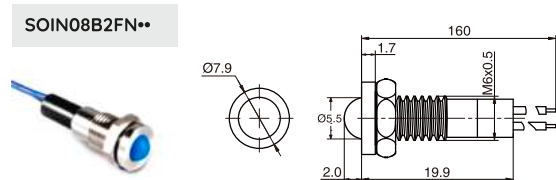
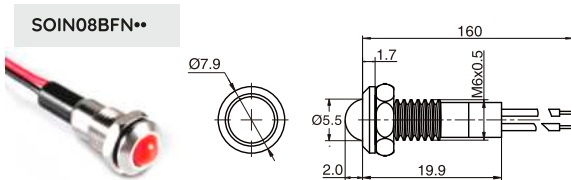
Ø6MM - FLAT LENS - NICKELED BRASS



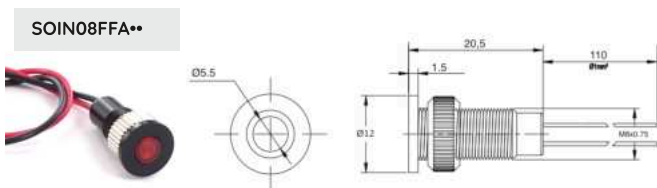
Ø6MM - CONVEX LENS - NICKELED BRASS



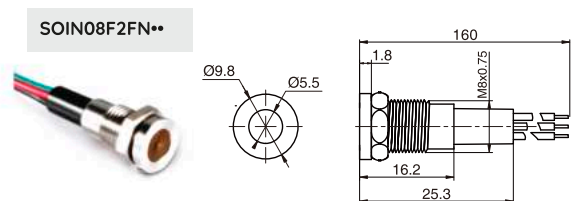
Ø8MM - BULB LENS - NICKELED BRASS



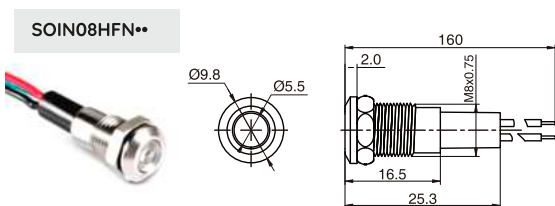
Ø8MM - FLAT LENS - BLACK ALUM.



Ø8MM - FLAT LENS 1 - NICKELED BRASS



Ø8MM - CONVEX LENS - NICKELED BRASS

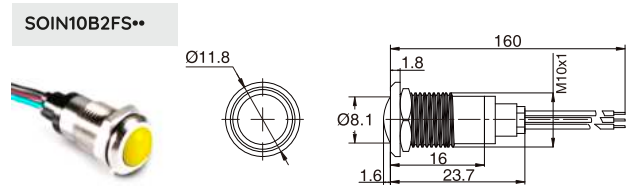
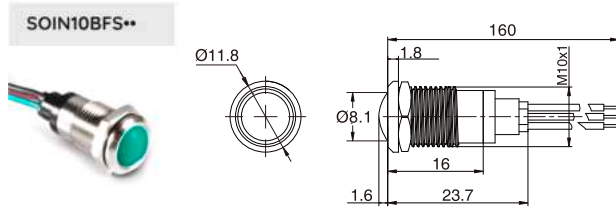


• select LED color and voltage in Build your part number section

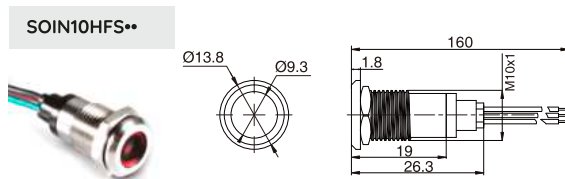
Series SOIN_F

LED indicators • wire leads terminals • Ø6 • Ø8 • Ø10 • Ø12

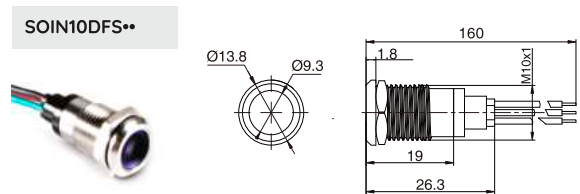
Ø10MM - BULB LENS - STAINLESS STEEL



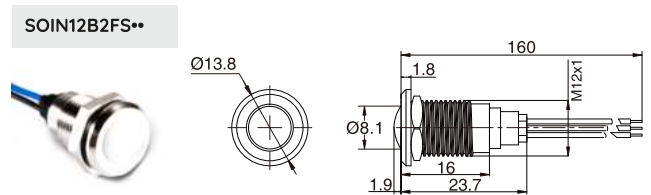
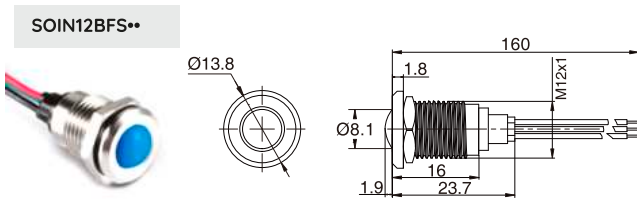
Ø10MM - CONVEX LENS - STAINLESS STEEL



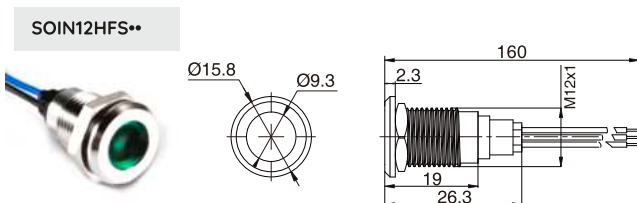
Ø10MM - CONCAVE LENS - STAINLESS STEEL



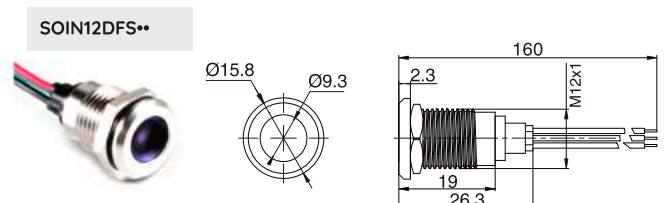
Ø12MM - BULB LENS - STAINLESS STEEL



Ø12MM - CONVEX LENS - STAINLESS STEEL



Ø8MM - CONCAVE LENS - STAINLESS STEEL



• select LED color and voltage in Build your part number section



U.DESIGN



LED INDICATORS • SOLDER & SCREW TERMINALS
 Ø8 • Ø12 • Ø16 • Ø19 • Ø22 • Ø25 • Ø28 • Ø30



DISTINCTIVE FEATURES


shiny, mat or black finishing
 Screw & solder terminals

power supply from 2V to 220V
 IP67 protection grade
 specific wiring upon request

ELECTRICAL CHARACTERISTICS

LED POWER SUPPLY	OPERATING VOLTAGE (Min to Max)	TYPICAL CURRENT
2 VDC (NO RESISTOR)	1,8 to 2,5 VDC	20 mA
6 VDC	5,8 to 6,5 VDC	20 mA
12 VDC	10,8 to 13,2 VDC	20 mA
24 VDC	21,6 to 26,4 VDC	20 mA
110 VAC	99 to 121 VAC	6 mA
220 VAC	207 to 253 VAC	3 mA

Max forward voltage : 5 V

LED circuit diagram : a  b

ENVIRONMENTAL CHARACTERISTICS






Operating temperature = from -40°C to +85°C

Typical LED life : 50.000 hours

Protection grade : IP67
 Impact rating : IK10

Vision angle : from 30° to 100°

VISUAL CHARACTERISTICS

LED COLOR	PROMINENT INTENSITY	FLUSH INTENSITY
R Red 	7500 mcd	2000 mcd
G Green 	4100 mcd	250 mcd
Y Yellow 	2500 mcd	350 mcd
B Blue 	1300 mcd	300 mcd
W White 	1900 mcd	200 mcd

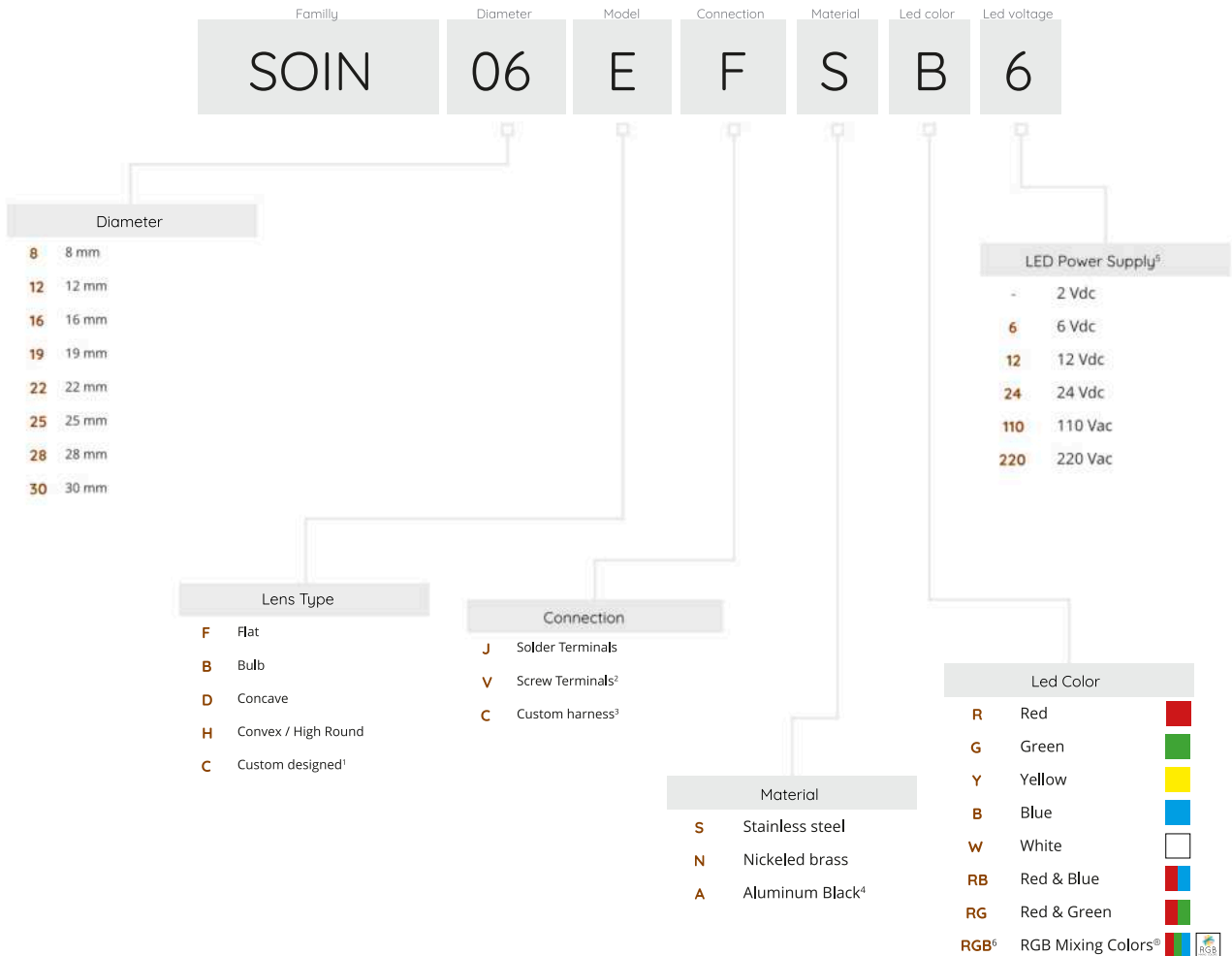
Luminous Intensity will be reduced with lower operating current



Series SOIN_J

LED indicators • solder & screw terminals
Ø8 • Ø12 • Ø16 • Ø19 • Ø22 • Ø25 • Ø28 • Ø30


BUILD YOUR PART NUMBER



ABOUT THIS RANGE

¹ service  U.DESIGN : custom design of lens on request.

² starting from dia. 12mm

³ service  U.DESIGN : custom harness of our indicators following your technical pre-requisite.

⁴ Black anodised aluminum only available for SOIN08F1

⁵ Internal resistor. Other voltage available on request. MOQ and conditions apply

⁶ RGB-MixingColors only available for SOIN22

Our LED indicators are supplied with hex or knurled nut and washer.

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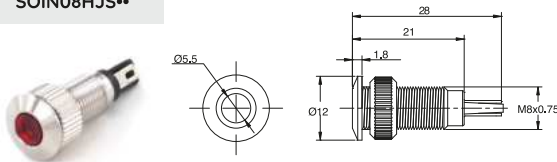
Series SOIN_J

LED indicators • solder & screw terminals
Ø8 • Ø12 • Ø16 • Ø19 • Ø22 • Ø25 • Ø28 • Ø30

CONFIGURATION EXAMPLES

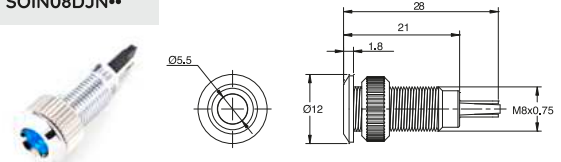
Ø8MM - CONVEX LENS - STAINLESS STEEL

SOIN08HJS••



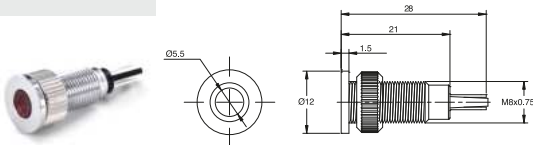
Ø8MM - CONCAVE LENS - NICKELED BRASS

SOIN08DJN••



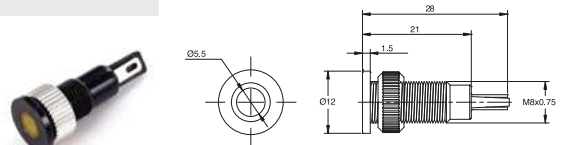
Ø8MM - FLAT LENS - STAINLESS STEEL

SOIN08FJS••



Ø8MM - FLAT LENS - BLACK ALUM.

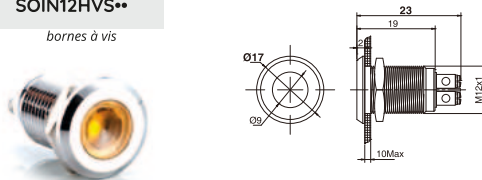
SOIN08FJA••



Ø12MM - CONVEX LENS - NICKELED BRASS

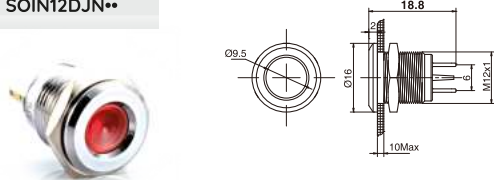
SOIN12HVS••

bornes à vis



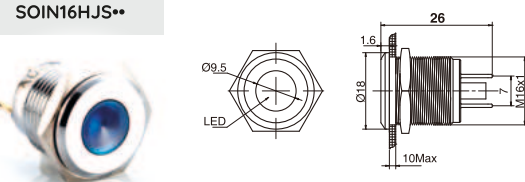
Ø12MM - CONCAVE LENS - NICKELED BRASS

SOIN12DJN••



Ø16MM - CONVEX LENS - STAINLESS STEEL

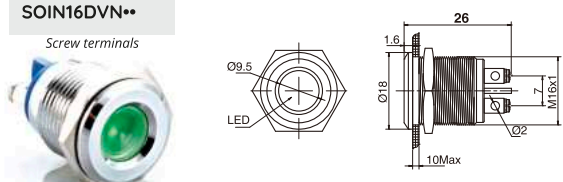
SOIN16HJS••



Ø16MM - CONCAVE LENS - NICKELED BRASS

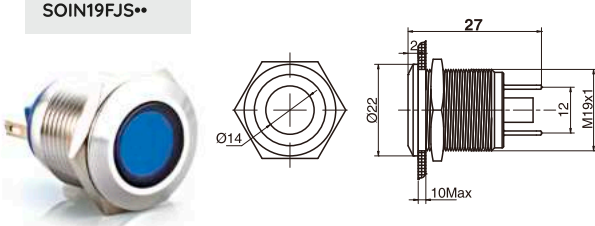
SOIN16DVN••

Screw terminals



Ø19MM - FLAT LENS - STAINLESS STEEL

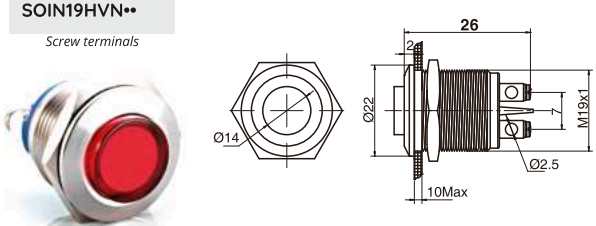
SOIN19FJS••



Ø19MM - HIGH ROUND LENS - STAINLESS STEEL

SOIN19HVN••

Screw terminals



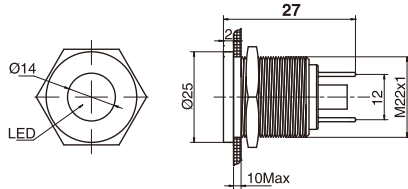
• select LED color and voltage in Build your part number section

Series SOIN_J

LED indicators • solder & screw terminals
Ø8 • Ø12 • Ø16 • Ø19 • Ø22 • Ø25 • Ø28 • Ø30

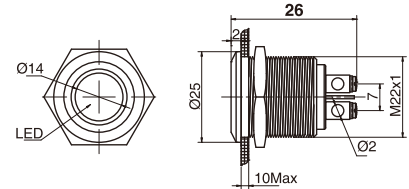
Ø22MM - FLAT LENS - STAINLESS STEEL

SOIN22FJS••



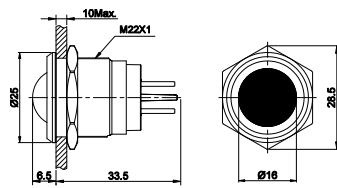
Ø22MM - CONCAVE LENS - STAINLESS STEEL

SOIN22DJS••



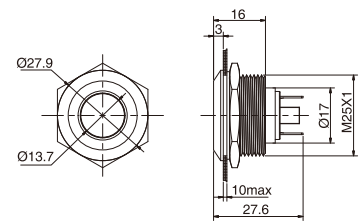
Ø22MM - BULB LENS - STAINLESS STEEL

SOIN22BJS••



Ø25MM - CONCAVE LENS - STAINLESS STEEL

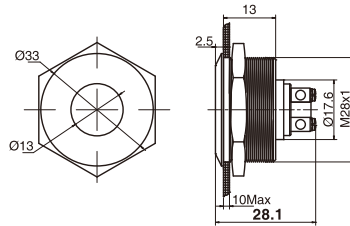
SOIN25DJS••



Ø28MM - FLAT LENS - STAINLESS STEEL

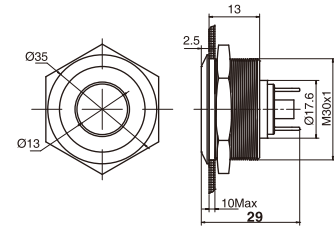
SOIN28FVS••

Screw terminals



Ø30MM - CONCAVE LENS - STAINLESS STEEL

SOIN30DJS••



• select LED color and voltage in Build your part number section



U.DESIGN



Custom harness and wiring
MOQ might apply



DRAGON Series

2020
NEW PRODUCT
— ★ —

SENSITIVE PUSHBUTTON SWITCHES • CAPACITIVE TECHNOLOGY



DISTINCTIVE FEATURES

capacitive technology

IP68/IP69K and IK10

illuminated versions

auto-calibration function

NO or NC contact, momentary or latched

DRAGON capacitive pushbuttons activate with the touch of a finger. An automatic calibration function ensures that the button constantly adapts to changes in its environment. As sensitive as a touchscreen, those capacitive buttons are perfect for industrial applications where repetitive activation can cause operator fatigue.

ELECTRICAL SPECIFICATIONS

Max current : 200 mA, 24 VDC

Power supply : 5VDC, 12VDC or 24VDC

Contact type : OFF-(ON) or OFF-ON

Consumption (no LED) : 7mA

Consumption (with LED) : 25mA

Electrical life : 50 million cycles

Output : NPN or PNP

LED circuit can be independent or linked to contact

ENVIRONMENTAL SPECIFICATIONS

Operating temperature : from -20°C to +65°C

Impact resistance : IK10

Ingress protection : IP68 and IP69K following IEC60529

EMC : compliant with EN61000-4-2 standards

MECHANICAL SPECIFICATIONS

Actuation force : 0 N

Materials :

Body : Stainless steel 316L or Anodized aluminum

Key : Stainless steel 316L or Anodized aluminum

Wires (F) : stranded 0,22mm², L=300mm

Connector (C) : HE14 6V, compatible with AMP/TYCO281839-3

GENERAL SPECIFICATIONS

Mounting hole : from 16,2 to 25,2 mm

Panel thickness : from 0,75 to 4mm



BUILD YOUR PART NUMBER

Family	Diameter	Material	Key	Connection	Illumination	Output	Contact	Function	LED colour	LED circuit
DR	22	S	R1	F	A	Z	NO	M	G	S

MOUNTING HOLE

16 dia. 16mm

19 dia. 19mm

22 dia. 22mm

25 dia. 25mm

MATERIAL

S Stainless 316L

A Anodized Aluminum¹

KEY TYPE

R1 **Dia 16 only**
Flat, height 4.5mm
Available with illuminated ring

R2 **Dia 19 only**
Flat, height 3mm
Available with illuminated ring

RA **Dia 19 only**
Flat with chamfer, height 2mm
Available with illuminated ring

RZ **Dia 22 et 25 only**
Flat, height 4.5mm
Available with illuminated ring L or F

RY **Dia 22 et 25 only**
Flat with chamfer, height 4.5mm
Available with illuminated ring L or F

CONNECTION TYPE

F Wires

C Connector

ILLUMINATION TYPE

- Without illumination

A Standard ring, 5Vdc

N Standard ring, 12Vdc

K Standard ring, 24Vdc

P Large ring, 5Vdc

J Large ring, 12Vdc

Y Large ring, 24Vdc

Options P, J, Y dia. 22 & 25 only

OUTPUT

- NPN

Z PNP

CONTACT TYPE

NO Normally Open

NC Normally Closed

ACTUATION TYPE

M Momentary OFF-(ON)

L Latched OFF-ON

CIRCUIT LED

S Independent

C Linked to contact

LED COLOUR

- No illumination

R Red

G Green

Y Yellow

B Blue

W White

RW Red / White

RB Red / Blue

RG Red / Green

RY Red / Yellow

GB Green / Blue

GY Green / Yellow

GW Green / White

BY Blue / Yellow

BW Blue / White

YW Yellow / White

WIRING DIAGRAMS

Output	Non-illuminated	1 LED		2 LEDs		Legend
		Output indicator	Independent	Output indicator	Independent	
NPN						R red +V Black black GND W white output A = samecolor as LED
PNP						

ABOUT THIS RANGE

¹ Anodizing colour to be selected on order. Might be subject to MOQ.
Our pushbuttons are always supplied with hex or knurled nut and washer.

⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

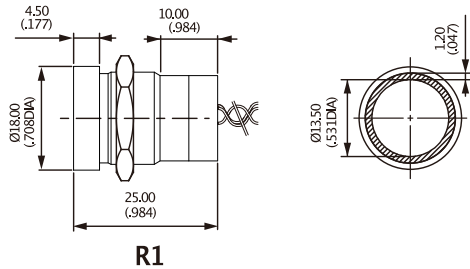
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sales@hynoppe.com

CONFIGURATION EXAMPLES

DIA.16MM □



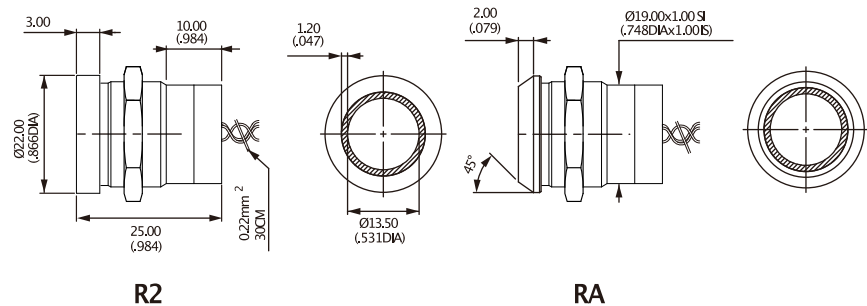
DR16SR1FNN0MBS



DIA.19MM □



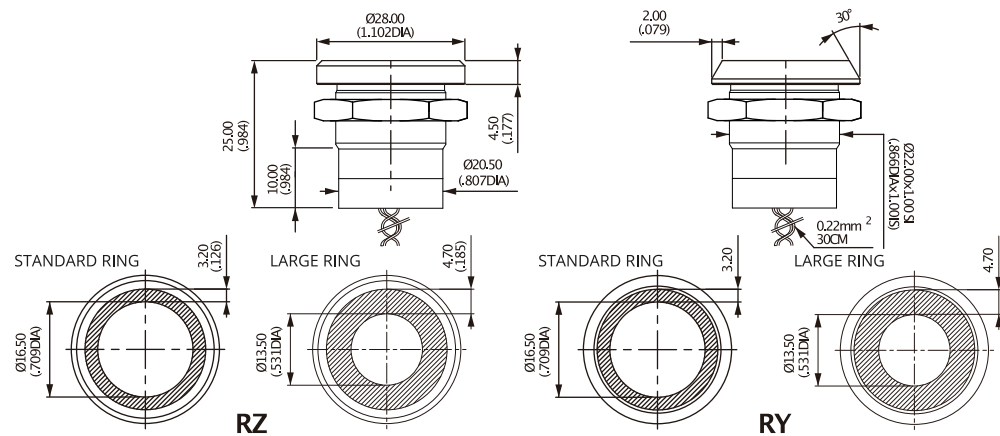
DR19SR2FNN0MBS



DIA.22MM □



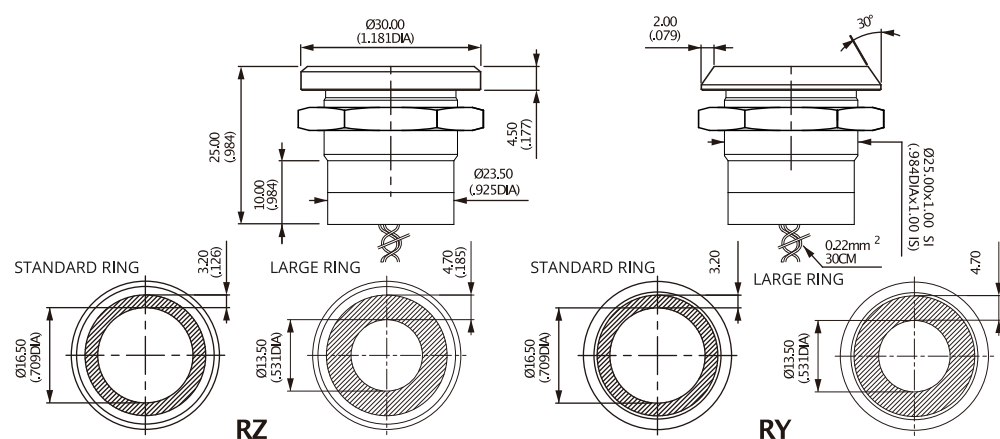
DR22SRYPN0MRS



DIA.25MM □



DR25SRZFNN0MBS





SENSITIVE PUSHBUTTON SWITCHES • PIEZOELECTRIC TECHNOLOGY

🏆 DISTINCTIVE FEATURES

piezoelectric technology

IP68 & IP69K

no moving part

momentary or latched

NO or NC contact

laser hatched custom logo

Conventional electromechanical pushbuttons incorporate moving parts that inevitably wear out. Their reliability can be reduced by contaminants such as humidity and dust that will clog the contact points. Thanks to their IP68 & IP69K sealing, our **Lufo** piezoelectric pushbuttons answer to those problems and their very long lifespan (more than 50 million operations) make them ideal for your applications where reliability is essential. Our **Lufo** pushbuttons are perfectly suited for humid environments (yachting, spa, swimming pool, etc.) or in industries requiring regular cleaning of control panels (medical environment, food industry, etc.).

⚡ ELECTRICAL SPECIFICATIONS

Current : 20mA 24VAC/DC - 1A 24VAC/DC

Contact resistance ON : 10 Ω max

Contact resistance OFF : 5 M Ω min

Electrical life : 50.000.000 cycles, nominal

Switch energy consumption : none

LED energy consumption : 10 to 20 mA max

⚙️ MECHANICAL SPECIFICATIONS

Mechanical life : 50.000.000 cycles mini.

Materials : see **BUILD YOUR PART NUMBER** section

☀️ ENVIRONMENTAL SPECIFICATIONS

Operating temperature = from -40°C to +75°C

Ingress protection :

IP68 compliant IEC529,

IP69K compliant DIN40050-9

Vibration resistance :

10-500 Hz / 10g compliant IEC60068-2-6

EMC compatibility :

version 200mA : compliant EN61058-1

version 1A : compliant EN61000-4 & EN61000-6-2

≡ GENERAL SPECIFICATIONS

Mounting hole : following version

Panel thickness : from 0,5 to 4,5mm following version

Torque applied to nut : 11,5 Kgf/cm max

★ IDEAL FOR...

Showers

Spas & S.Pools

Car wash

Marine

Medical

and much more !

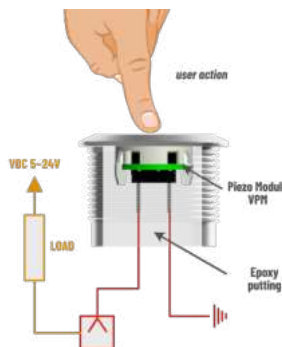


HOW IT WORKS ?

The piezoelectric effect (from the Greek "Piezein", to press) was demonstrated in 1881 by the Curie brothers.

This is the property of certain bodies (such as quartz, topaz, ceramic, certain crystals and polymers) to become electrically polarized under the action of a force deforming them (Direct effect); reciprocally to deform when an electric field is applied to them (Indirect effect).

It is this Direct effect which is implemented in the piezoelectric buttons: the pressure of the finger applied to the surface of the button very concretely "pinches" the piezo element installed under the latter (imagine a drum head). The piezo crystal converts this change in mechanical state into an electrical signal which is amplified by the electronics embedded in the body of the button. This brief "on" type pulse can vary depending on the pressure applied; higher pressures generate higher voltages which take longer to dissipate. A capacitor can be used to store charge to extend the closing time constant of the circuit and therefore the length of the pulse.



The technology used in Lupo buttons is based on a single VPM mechanically assembled without the use of adhesives, glues or welding - which age over time and environmental variations (ambient temperature, humidity level...). The VPM is encapsulated in a custom-designed, industry-standard one-piece metal housing giving our buttons one of the best levels of reliability and durability on the market.



WORKING DIAGRAMS

These diagrams show the opening/closing of the circuit when the button is pressed.

Finger pressure

1 = finger pressure active
0 = no pressure

Contact state

1 = closed contact
0 = open contact

NO Momentary OFF-(ON)

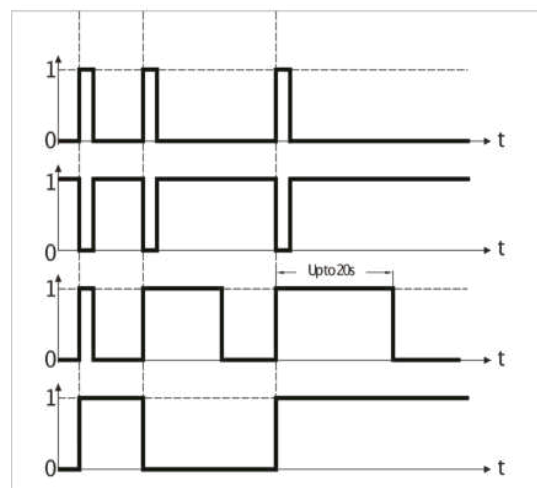
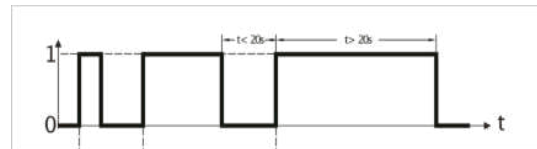
NC Momentary ON-(OFF)

NO Momentary OFF-(ON)

Prolonged pulse (K option)

NO Alternate ON - OFF

(External power supply required)



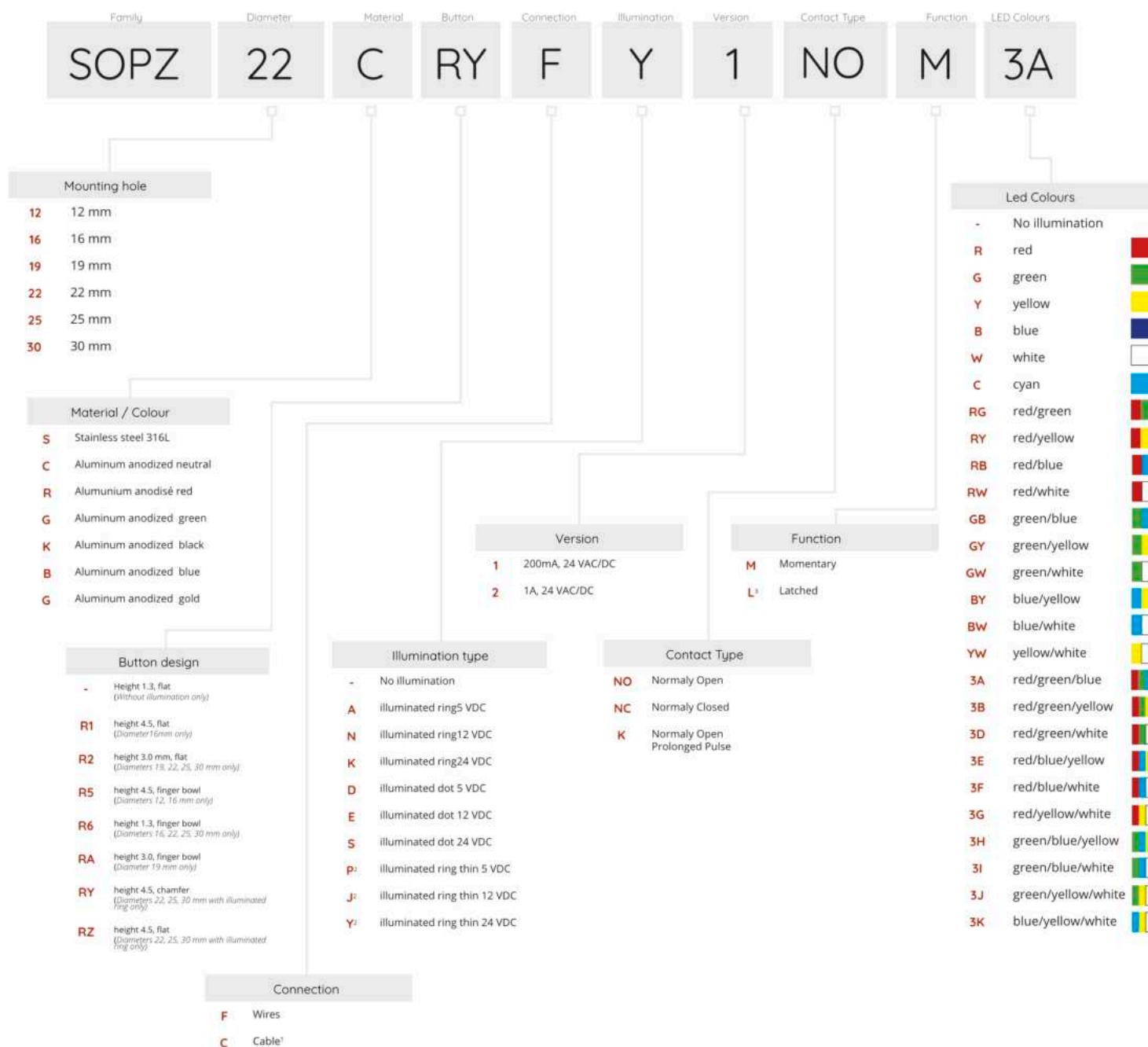
CONCEPTION & DESIGN

- 1 Lighting by light ring (mono, bi or tri colors), or light point.
- 2 No moving part: IP68/IP69K waterproofing ensured, no mechanical aging.
- 3 Very robust one-block metal body in 316L stainless steel or anodized aluminum. From drilling diameter 16mm to 30mm.
- 4 resin potting ensuring protection of the piezo module and on-board electronics as well as IP67 rear waterproofing
- 5 Connection by wire as standard: 1 pair for the contact / 1, 2 or 3 pairs for the lighting function. Optional: cable or connector
- 6 Versatile Piezo Module (VPM) and on-board electronics ensuring a lifespan of more than 50 million cycles

WIRING SCHEMES

	NO LED	1 LED *	2 LEDs	3 LEDs
Momentary NO OFF-(ON)				
Momentary NC ON-(OFF)				
Momentary NO Prolonged Pulse OFF-(ON)				momentary : RED : contact B (black wires) : Led COM A (wires of color of Led) : +V
Alternate OFF-ON				alternate : BR (brown wire) : +V BK (black wire) : GND BL (blue wire) : contact

BUILD YOUR PART NUMBER



ABOUT THIS RANGE

¹ service U.DESIGN : custom wiring on request, subject to MOQ.

² Diameters 22mm, 25mm et 30mm only.

³ latched version : 2 LED colours max, no prolonged pulse available

Our pushbuttons are always supplied with hex or knurled nut and washer.

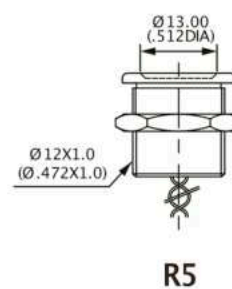
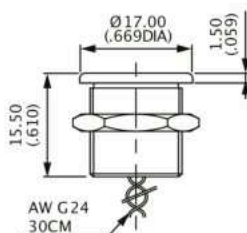
⚠ SOME CONFIGURATIONS MIGHT NOT BE AVAILABLE OR SUBMITTED TO M.O.Q.

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CONFIGURATION EXAMPLES

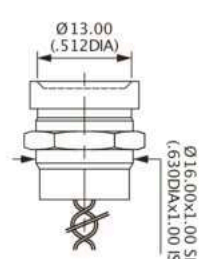
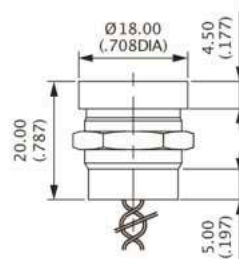
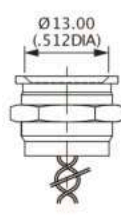
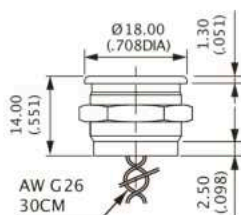
Diameter 12 - NO LED

SOPZ12SF1NOM



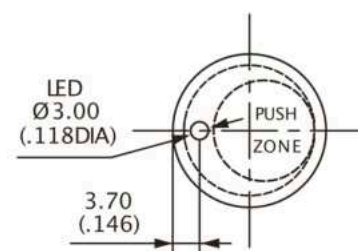
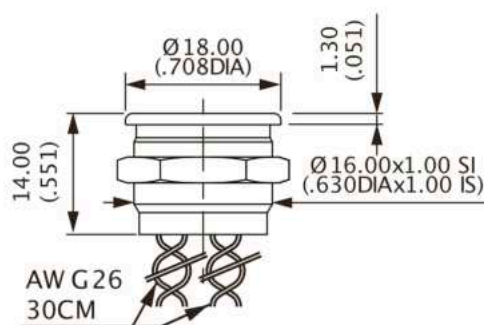
Diameter 16 - NO LED

SOPZ16RF1NOM



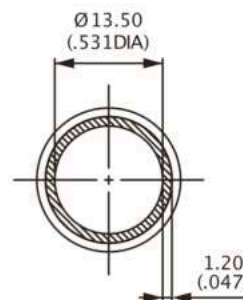
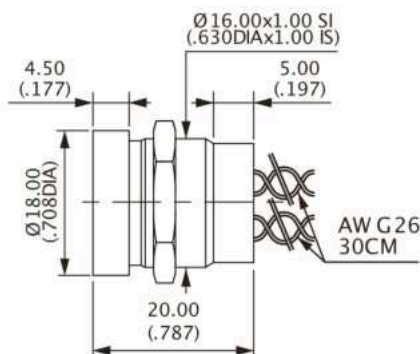
Diameter 16 - illuminated dot

SOPZ16SFS1NOMR



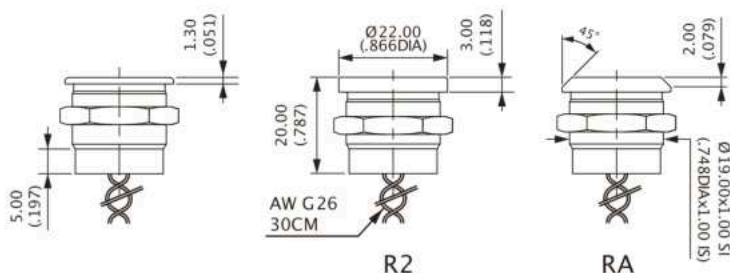
Diameter 16 - illuminated ring

SOPZ16CR1FN1NOMR



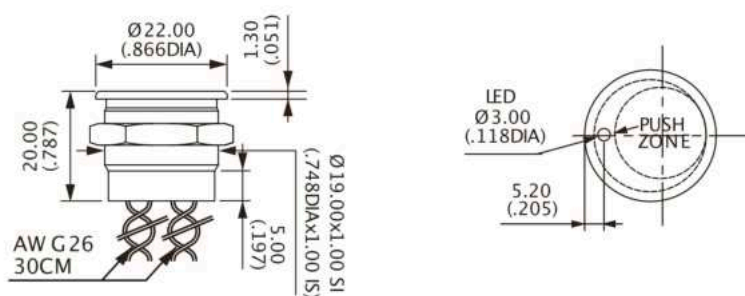
Diameter 19 - NO LED

SOPZ19GF1NOM



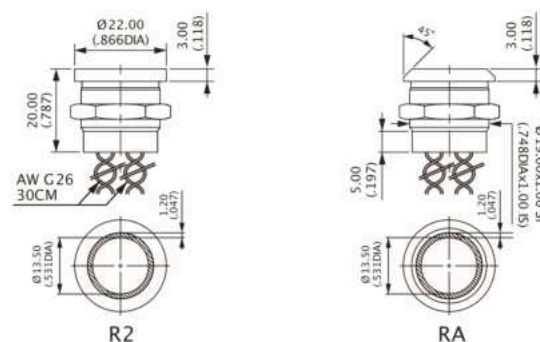
Diameter 19 - illuminated dot

SOPZ19SFE1NOMR



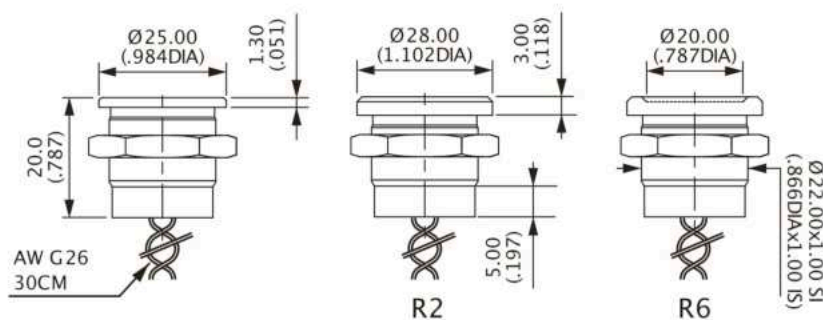
Diameter 19 - illuminated ring

SOPZ19SRAFKNOMR



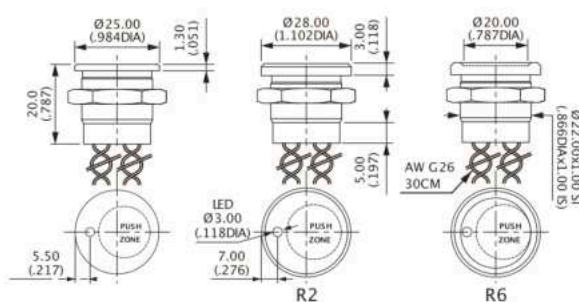
Diameter 22 - NO LED

SOPZ22RR6F1NOM



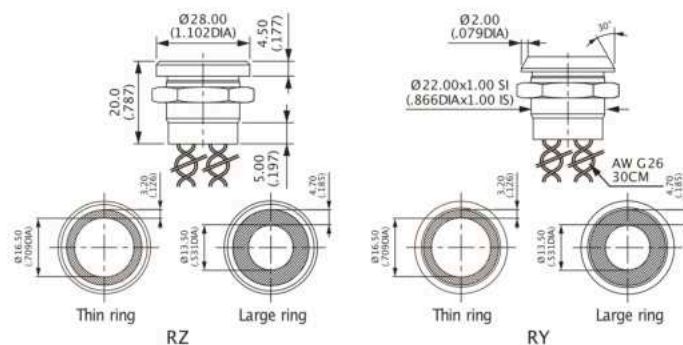
Diameter 22 - illuminated dot

SOPZ22SR2FD1NOMR



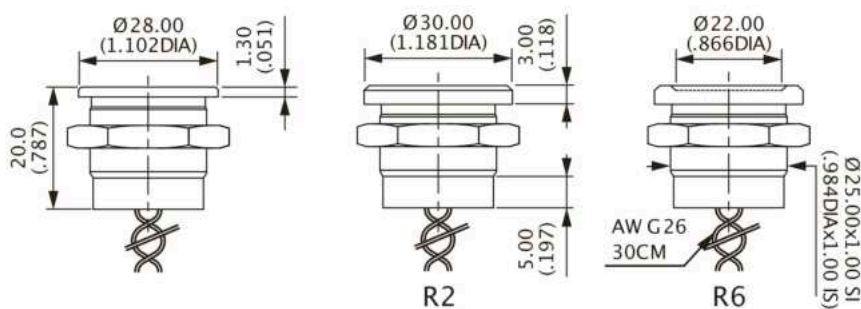
Diameter 22 - illuminated ring

SOPZ22SR2FYJ1NOMW



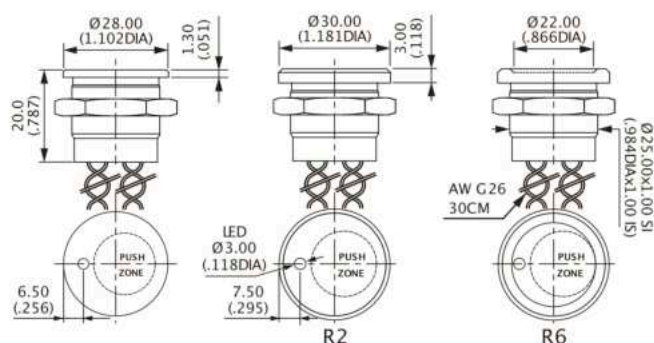
Diameter 25 - NO LED

SOPZ25SF1NOM



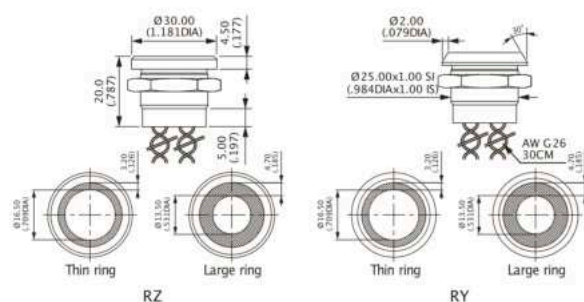
Diameter 25 - illuminated dot

SOPZ25SR2FS1NOMR



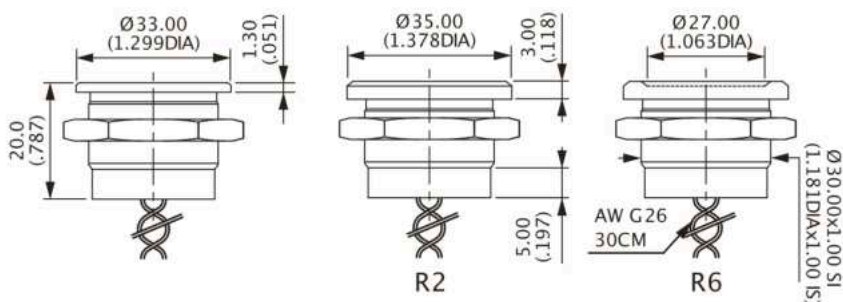
Diameter 25 - illuminated ring

SOPZ25SRZFN1NOMG



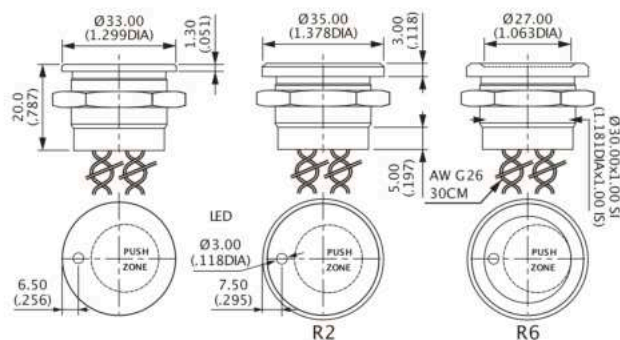
Diameter 30 - NO LED

SOPZ30CR2F1NOM



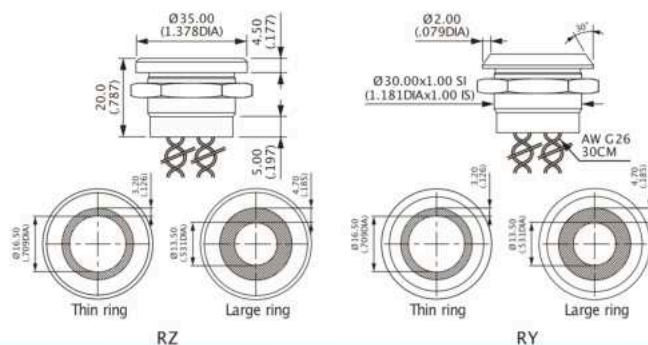
Diameter 30 - illuminated dot

SOPZ30SFE1NOMG



Diameter 30 - illuminated ring

SOPZ30KRYFJ1NOMRY





Série **BPSi**

SENSITIVE PUSHBUTTON SWITCHES • PIEZOELECTRIC TECHNOLOGY



🏆 DISTINCTIVE FEATURES

piezoélectric technology

IP68 & IP69K

fully backlit button surface

⚡ ELECTRICAL CHARACTERISTICS

Max Current : 0,2A (standard), 1A (optional)

Operating voltage : from 1 to 24 Vac/dc

Contact type : OFF-(ON)

Life cycle : 50 million cycles +

Led consumption :

	12V	24V
Red	18mA	18mA
Green	9mA	9mA
Blue	27mA	16mA

⚙️ ENVIRONMENTAL CHARACTERISTICS

Operating temperature : -20°C to +70°C

Protection degree : IP68 & IP69K compliant IEC60529

Impact resistance : IK06

⚙️ MECHANICAL CHARACTERISTICS

Actuation force : 3 to 5N

Impulse length : 125 to 300 msec

Materials :

Body : POM

Button : POM

Wires (F) : stranded AWG26, 30cm

Cable (C) : 1m

≡ GENERAL CHARACTERISTICS

Installation size : 22,2 mm

★ IDEAL FOR...

Showers

Spas & S.Pools

Car wash

Marine

Medical

and so much more !



BUILD YOUR PART NUMBER

Series	Installation size	Material	Connection	Illumination	Version	Contact	Function	LED colors
BPSI	2	P	F	N	1	NO	M	G

INSTALLATION SIZE	
2	dia. 22mm

BODY MATERIAL	
P	White POM Plastic

CONNECTION	
F	Wire leads - AWG26 30 cm
C	Sealed Cable - 1 m

ILLUMINATION TYPE	
N	Backlit, 12Vdc
K	Backlit, 24Vdc

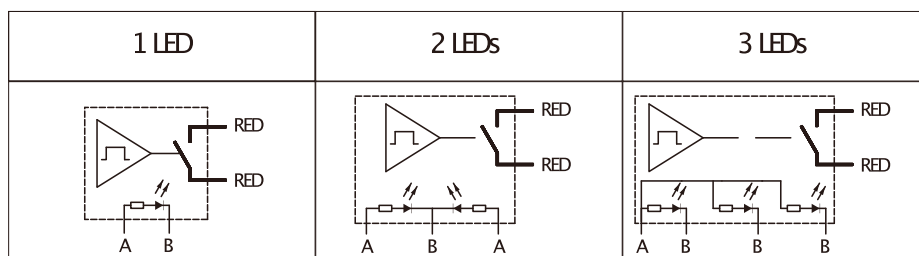
VERSION	
1	200mA, 24Vac/dc
2	1 A, 24Vac/dc

CONTACT TYPE	
NO	Normally Open

ACTION	
M	Momentary 1-(2)

LED COLOR	
R	Red
G	Green
B	Blue
RB	Red / Blue
RG	Red / Green
RGB	Red / Green / Blue

WIRING SCHEMES

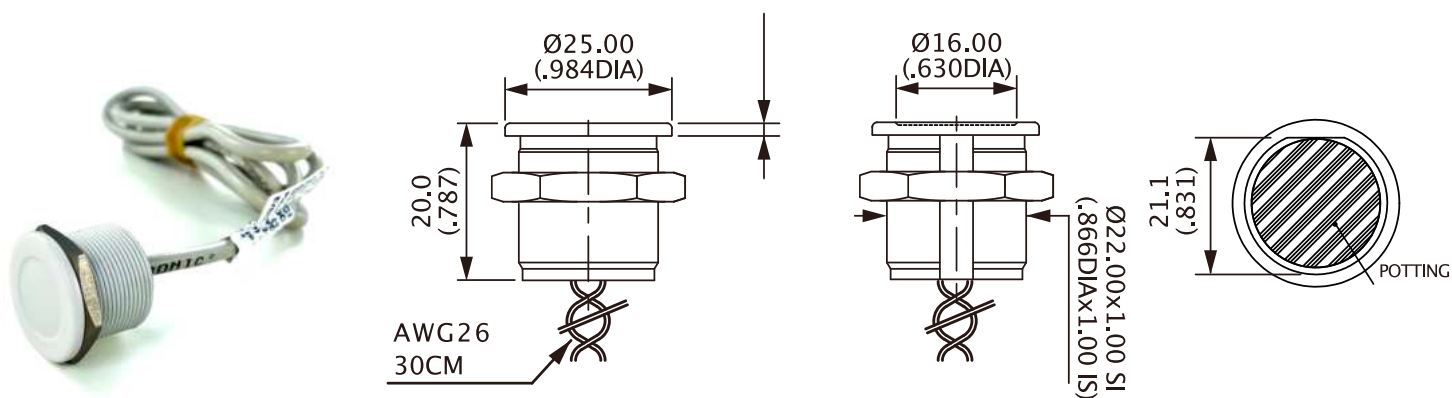


Légende : B = Fil noir ; A = Fil du couleur de la LED

RGB Led Colors combinations :



DIMENSIONS



ABOUT THIS RANGE

Our pushbuttons are always supplied with hex or knurled nut and washer.

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"TOUCHLESS" SWITCHES • INFRARED TECHNOLOGY

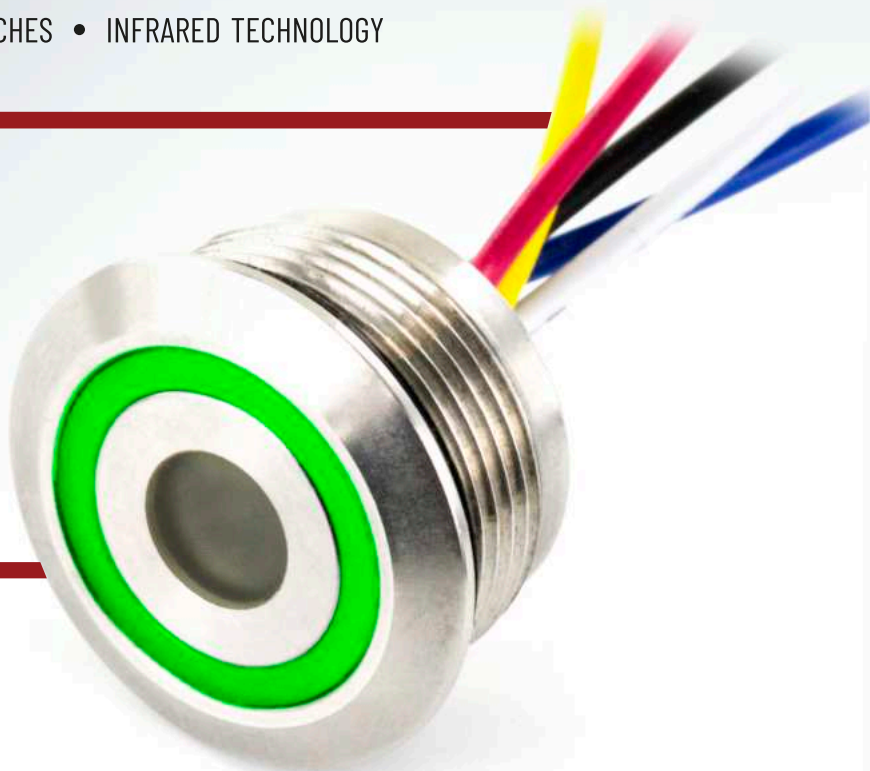
DISTINCTIVE FEATURES

touchless actuation from 0 to 5 cm

easy setup

IP67

illuminated ring



ELECTRICAL CHARACTERISTICS

Power supply : 12 Vac/dc or 24Vac/dc

Operating current : 150mA Max

Output : PNP, NO contact

Functions :

On/Off, momentary

Electrical lifecycles : +1.000.000 cycles

MECHANICAL CHARACTERISTICS

Material : Stainless Steel 316L

Connection via wire leads

Mechanical life : virtually illimited

ENVIRONMENTAL CHARACTERISTICS

Working temperature : -25°C to +55°C

Humidity : 40~85%RH

Protection degree : IP67

GENERAL CHARACTERISTICS

Installation diameter size : 19,5 mm

Panel thickness : from 0.8 to 4.5mm

IDÉAL FOR...

Security

Ticketing

Parking

Medical

et so much more !



BUILD YOUR PART NUMBER

Family	Diameter	Type	Action	Connection	Matériau	LED color	Power Supply
SOIR	19	E		F	S	R	12

INSTALLATION SIZE

19 19 mm

TYPE

E flat button, illuminated ring

ACTION

- Momentary OFF-(ON)
Z Maintained OFF-ON

CONNECTION

F Wire leads 15 cm

MATERIAL

S Stainless Steel

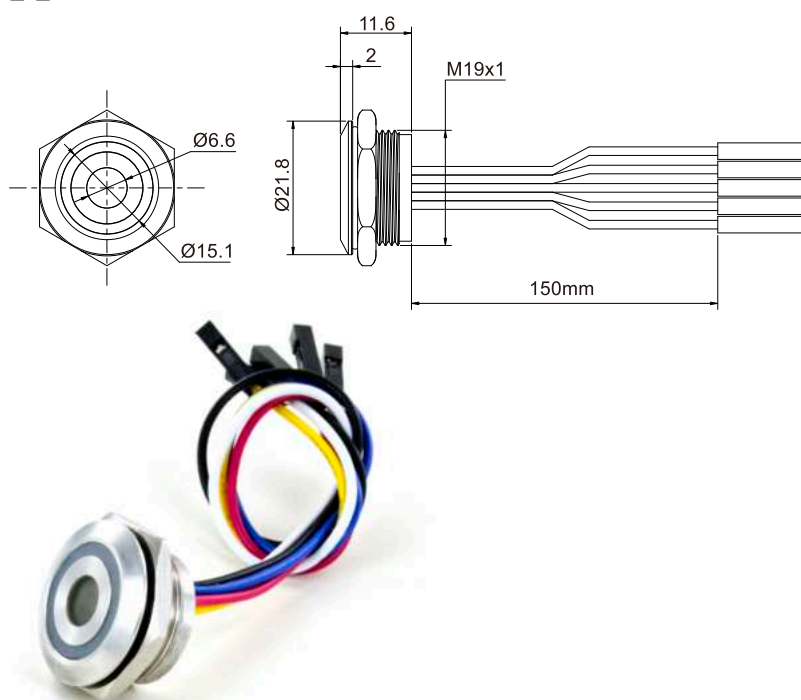
POWER SUPPLY

1 12 V
2 24 V

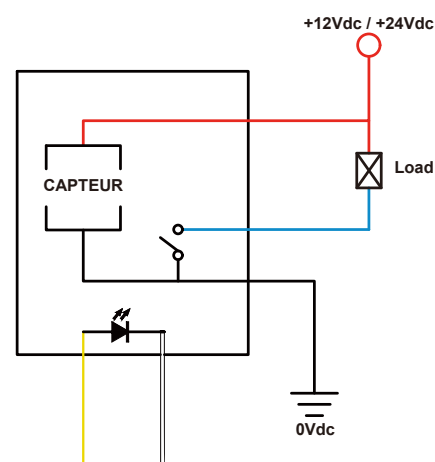
LED COLOR

R Red
G Green
Y Yellow
B Blue
W White

DIMENSIONS



CIRCUIT DIAGRAM



ABOUT THIS RANGE

Our pushbuttons are always supplied with hex or knurled nut and washer.

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switching experts



switching experts



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