

**SWAOI**

**Selector switch, maintained, with 4-pole M12 connector**



General Data	
Type reference	S(VA)(SW)(T)(N)(TLR(L))(f)(WA)(WB)(WC)(L)(SSA...)(I)(O)(II)_Cyx x
Description	Short-stroke pushbutton with integrated M12 connector
Approvals	CE
Contact type	2S / 1Ö + 1S / 1Ö + L / 1S + L / 1 S / L
Protection class	II (protective insulation)
Degree of protection	IP65/67 (T,TLR,N, in the front); IP65 (SSA,STA,STB,WA,WB,WC, in the front); IP65
Operation travel	2.3 mm (pushbutton)
Connection type	M12 connector, A-coded (integrated)
Contact material	AgNi / AgNi, gold-plated 5µm
Max. storage temperature	-40°C ... 80°C
Max. operating temperature	-25°C ... 70°C
Mechanical life	1 million (T, TL) 30.000 (WA, WAL, WB, WC, SSA)
Electrical life (rated load)	1 million (T, TL), DC13: max. 100.000 30.000 (WA, WAL, WB, WC, SSA)
Contact resistance NO	< 50 mOhm (new state)
Contact resistance NC	< 50 mOhm (new state)
Bouncing time NO	< 10 ms
Bouncing time NC	< 10 ms
Positive opening contact	acc. to EN60947-5-1, appendix K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)		
	alternate current	direct current
Utilisation category	AC15	DC13
Rated insulation voltage Ui	50 V	50 V
Rated operating voltage Ue	35 V	35 V
Rated operating current Ie	4 A	2 A
Continuous thermal current	4 A	



### Technical Data - Lamp

Lamp socket	none, with integrated 3 mm LED white
Max. lamp voltage	30 V AC/DC
Max. lamp output	14mA (at 24 V DC)
Definition	X1 ...anode, X2...cathode

### Additional Data

Mounting aperture	22.3 mm
Tightening torque (mounting nut)	1.5 ... 1.9 Nm
Mounting position	any
Standards	EN 60947-5-1, EN 61058-1
Material group	I
Overvoltage category	II
Pollution degree	2

### Electrical Features gold-plated contacts

Operational voltage	20 mV...35 V AC/DC
Switching current	1mA ... 100mA
Breaking capacity (ohmic load)	250 mW
Contact resistance (new state)	< 50 mOhm

### Note

NC / NO ...NC contact / NO contact

S ...Shortron  
 VA ...stainless steel  
 SW ...black  
 N ...pilot light  
 T ...pushbutton  
 TLR(L)(f) ...pushbutton with LED ring (f=colour:  
 W,R,Y,G,B)\*<sup>2</sup>; (L=lasered)  
 SSA12-31 ...key switches  
 WA ...selector switch, 2 positions, maintained  
 WB ...selector switch, 3 positions, maintained  
 WC ...selector switch, 3 positions,  
 maintained/momentary  
 L ...illumination option  
 \*<sup>2</sup> with ring illumination

...Cyxx  
 "y" version  
 0 = 4-pole connector, silver contact  
 3 = 4-pole connector, gold-plated contact



"xx" pin assignment  
 xx Pin 1 Pin 2 Pin 3 Pin 4 Type  
 01 - - - - -  
 02 NO (1) NO (1) NO (2) NO (2) 2 NO  
 03 NC NC NO NO 1 NC 1 NO  
 04 NC NC LED - LED + 1 NC + LED  
 05 NO NO LED - LED + 1 NO + LED  
 06 NC NC - - 1 NC  
 07 NO NO - - 1 NO  
 08 COM NC - NO 1 NC 1 NO  
 09 COM NO (1) - NO (2) 2 NO  
 10 - - LED - LED + LED

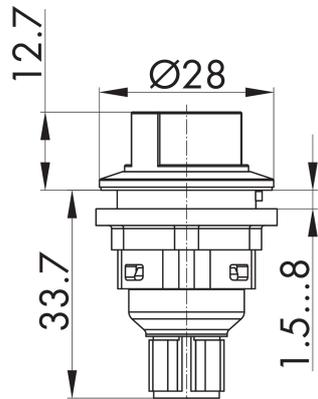
Safety instructions / mounting instructions  
 - the connector must not be connected or disconnected under load  
 - the single connector pin may be loaded with max. 4A  
 - selector / key switches with bridged connection ("COM", pin assignment 08,09) a max. of 1A is allowed

Photos (exemplary)

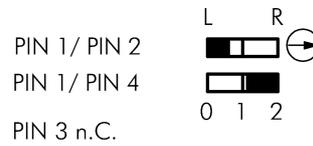
Illustration:



Dimensional drawing:



Switching diagram:



Wiring diagram:

