

SZU_C002

29.10.2021

Enabling switch

General Data

Type reference	SZU_C002
Description	3-position enabling switch
Approvals	CE, UKCA
Contact type	2 permissive contacts
Degree of protection	IP65 (in the front with sealing cap); IP65 / IP67 (on the rear, if M12 connector is plugged-in)
Operation travel	5 mm
Connection type	4-pole M12, A coded (NO1: Pin 1-2; NO2: Pin 3-4)
Max. storage temperature	-40°C ... 80°C
Max. operating temperature	-10°C ... +60°C (with rubber cap)
Mechanical life	1-2-1: > 1 million 1-2-3-1: > 0.1 million switching cycles
Electrical life (rated load)	> 100.000 switching cycles

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category	AC15	DC13
Rated insulation voltage U_i	50 V	50 V
Rated operating voltage U_e	35 V	30 V
Rated operating current I_e	0.3 A	0.7 A
Breaking capacity	10Ie	-
Continuous thermal current	3 A	3 A

Electrical features

Standards	EN 60947-5-1, EN 60947-5-8
B10d [cycles]	2,000,000 (EN ISO 13849-1 Annex C Table C.1)
Overvoltage category	II
Pollution degree	2

General data


Mounting aperture	22.3 mm
Mounting depth	39 mm
Tightening torque (mounting nut)	1.5 ... 2.5 Nm
Tightening torque (M12-connector)	max. 0.4 Nm
End stop strength	250 N
Short-circuit device (SCPD)	D0, gG, 4 A (fuse)
Operating force	see graphic (values without rubber cap); operating forces with rubber cap depending on temperature

Note

- 3-position enabling switch acc. to EN 60947-5-8
- with rubber cap
- silver-coloured front ring

In accordance to EN60947-5-1 appendix K the NC contacts are no positive opening contacts. According to DGVV GS-ET-22 comparable safety technics can be used as an alternative, e.g. technically controlled monitoring of both NC contacts (two-channel design).

Indications as to AC/DC12:
 AC12 35 V / 0.5 A
 DC12 30 V / 1.0A

Note:
 For use in safety-relevant applications the regulations of the respective country have to be observed.



