

**KRBUVOO\_M12**

14.04.2023

**Emergency-stop**

**General Data**

Type reference	KRBUVOO_KD11
Description	Emergency-stop device, ready-for-use
Approvals	CE, UKCA
Contact type	2 NC
Protection class	II (protective insulation)
Degree of protection	IP65, IP69k (in the front); IP65, IP67 (on the rear)
Operation travel	4.7 mm
Connection type	4-pole M12 with PUR cable, A coded; length 150 cm; wires 4 x 0.5 mm <sup>2</sup> (AWG21)
Contact material	AgNi
Max. storage temperature	-40°C ... 80°C
Max. operating temperature	-40°C ... 70°C
Mechanical life	50,000 switching cycles
Electrical life (rated load)	50,000 switching cycles at rated load
Contact resistance NC	< 200 mOhm
Bouncing time NC	< 10ms
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 U <sub>i</sub>	50 V	50 V
Rated operating voltage U <sub>e</sub>	35 V	35 V
Rated operating current I <sub>e</sub>	4 A	2 A
Breaking capacity	10I <sub>e</sub>	1,1I <sub>e</sub>
Continuous thermal current	4 A	4 A

**Additional data**

Mounting aperture	30.5mm
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Tightening torque (mounting nut)	1.2 ... 2.2 Nm
Release	twist release, left or right
Mounting position	any
Standards	EN 60947-5-1, EN 60947-5-5, EN ISO 13850
IK protection (EN50102)	IK06 (1 Joule)
Panel thickness	1.5...6.0 mm
Shock resistance, IEC 60068-2-27	50g at 11 ms amplitude, semi-sinusoidal
Ld	20% (NC)
B10d [cycles]	250,000 (AC15 35/4A, DC13 35/2A)
Material group	I
Overvoltage category	II
Pollution degree	2
Operating force	approx. 30...40 N (at 20 mm/min)

### Note

O = NC contact  
Cable length X = 150 cm

- with switching position indicator
- suitable for devices of the protection class II
- red mushroom head made of UV stabilised material
- mounting/protective plate available on request, article no.: KRMW130 (see separate data sheet)

Pin assignment emergency-stop:  
Pin 1 Pin 2 Pin 3 Pin 4 Type  
NC (1) NC (1) NC (2) NC (2) 2 NC

Approvals:  
- planned: VDE or TÜV (acc. to EN60947-5-1/5-5, EN 13850)

Approval (cable): UL (cURus)  
Connecting cable with M12 connector article no.: MURR 7072-12021  
Material (housing): TPU  
Gasket material: TPU molded seal (axial & radial acting)  
Coding: A  
Sheath colour: black  
Outer diameter:  $4.9 \pm 0.2$  mm  
Bending radius (rigid) 5x outer diameter  
Bending radius (moving) 10x outer diameter  
Tightening torque M12 connector: 0.6 Nm

Safety instructions / mounting instructions  
- the single connector pin may be loaded with max. 4 A (Ith)  
- observe the operating instructions

Additional electrical lifetime specifications:  
DC13 12V /4A (4-pole M12 connector):  
Lifetime: 50,000 cycles at 10 operations/minute  
B10d: 250,000 / Ld: 20%

DC13 35 V /3 A:  
Lifetime: 20,000 cycles at 10 operations/minute  
B10d: 157,500 / Ld: 20%

DC 5V / 6mA:  
Lifetime: 20,000 cycles at 15 operations/minute



B10d: 350,000 / Ld: 20%

General information:

- mechanical lifetime acc. to EN 60947-5-5 at Tu -40°...+70°C
- robustness test acc. to EN 60947-5-5 section 7.3.2 at Tu -40°...+40°C
- impact test acc. to EN 60947-5-5 at Tu -30°...+70°C

