



FRVKDOOP_AU 17.03.2022

aktiv-leuchtende sichere Not-Halt-Taste mit Zustandsanzeige aktiv/inaktiv

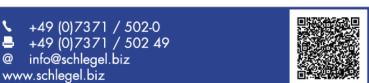


General Data	
Type reference	FRVKDOOP_AU
Description	Emergency-stop, active/inactive (without diagnostic device)
Approvals	CE, cURus, TÜV_Süd, UKCA
Contact type	2 NC
Degree of protection	IP65 / IP67
Connection type	PCB-mount terminals
Contact material	AgNi, gold-plated 5μm
Max. storage temperature	-40°C 80°C
Max. operating temperature	-25°C 70°C
Mechanical life	50,000 switching cycles
Electrical life (rated load)	50,000 switching cycles at rated load
Contact resistance NC	< 50 mOhm (new state)
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 Ui	250 V	250 V
Rated operating voltage Ue	-	
Rated operating current le	-	-
Breaking capacity		
Continuous thermal current	-	-

Technical Data - Lamp	
Lamp socket	none, with integrated 3 mm LED
Definition	X1anode, X2cathode







Additional data	
Mounting aperture	22.3 mm
Tightening torque (mounting nut)	1.3 1.9 Nm
Release	twist release, left or right
Mounting position	any
Standards	ISO 13850:2015(E), EN ISO 13850:2015(D), DIN EN ISO 13850:2016-05
Ld	20% (NC)
B10d [cycles]	
Overvoltage category	II
Pollution degree	2
Material group	T
Switching voltage	20 mV 35 V AC/DC
Switching current	1mA 250mA

Note

O = NC contact; I = NO contact

- with switching position indicator

- the diagnostic unit is not scope of delivery

Illumination, status indication active/inactive: acc. to ISO 13850:2015(E), EN ISO 13850:2015(D), DIN EN ISO

13850:2016-05

Mushroom head "grey": "inactive", no emergency-stop Mushroom head "red": "active" emergency-stop

LED data

Type: Opto Devices Typical data at IF=20mA:

Luminous intensity: min. 10000 mcd, typ. 13000 mcd

Beam angle: typ. 15°

Dominant wave length: 618...624 nm, typ. 621 nm

Rated voltage: $24 \text{ V DC} \pm 10\%$

Rated current: 17.8 mA (15.6...19.95mA)

Typical luminous intensity at IF=18mA: min. 9000 mcd, typ. 11700 mcd

Cut-off voltage LED: max. 70 V

Average lifetime: abt. 80.000...100.000 h

Safety instructions:

- The emergency-stop may only be used in lighting conditions in which a clear and unambiguous perceptibility of the red illuminated (active) mushroom head is guaranteed;
- e.g. indoors or in covered places without direct sunlight (normal industrial environment)
- Before using the emergency-stop a safety review of the entire system is required.
- Depending on the designer's risk assessment, the illumination of the emergency-stop has to be monitored by means of a "diagnostic unit", and in case of a failure one has to react in accordance with the risk evaluation.
- The illumination of the emergency-stop has to be checked regularly as to its clear perceptibility. The emergency-stop has to be exchanged in case the clear perceptibility is no longer given.
- Observe the operating instructions

Standard compliant applications:

- pluggable operator stations
- wireless operator stations
- pluggable system components (system components which are stationary available but only temporarily in operation)







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Rating 42Vdc/100mA

Category NISD2/8

Torque 1.3 ... 1.9 Nm (head nut)

Data acc. to UL 60947-5-1/ CSA-C22.2 No. 60947-5-1

Ratings 42Vdc/100mA



