

Datasheet

→ FRVKOO_C231

06/05/2025



Technical data

Emergency stop with integrated 8(6)-pole M12 connection

Type	FRVKOO_C231
Series	SHORTRON® connect
Rubric	Emergency-stop
Approvals	CE, UKCA



→ General data

Design	Round
Operating temperature	-25 °C ... 70 °C
Panel cut-out	Ø 22.3 mm
Lens colour	Red
Housing color	Yellow
Contact material	AgNi
Storage temperature	-40 °C ... 80 °C
Standards	EN 60947-5-1 EN 60947-5-5 EN ISO 13850
Degree of protection front	IP65 IP67
Degree of protection rear	IP65 with connected M12 IP67 with connected M12
Material group	I

→ Electrical data

Conditional short-circuit current	1000 A
Rated operating voltage IEC/EN 60947-5-1	30 V AC 30 V DC
Rated operating current IEC/EN 60947-5-1	0.5 A AC 0.5 A DC
Rated insulation voltage IEC/EN 60947-5-1	30 V AC 30 V DC
Rated impulse withstand voltage	2,5 kV
Contact resistance	< 50 mΩ NC
Electrical lifetime	50,000 switching cycles at rated voltage
Utilization category IEC/EN 60947-5-1	AC15 DC13
Contact type	2NC
Short-circuit protection device SCPD	GG 0.5 A
Bouncing time	< 10 ms NC
Switching capacity	30 V AC/DC 0,5 A AC/DC
Breaking capacity IEC/EN 60947-5-1	10 I _e AC 1,1 I _e DC
Overvoltage category	II
Pollution degree	2

→ Electrical note

Pin assignment

Pin 1	NC(21)
Pin 2	NC(22)
Pin 3	n.c
Pin 4	NC(12)
Pin 5	-
Pin 6	NC(11)
Pin 7	n.c.
Pin 8	-

Attention: Pin 5 and pin 8 are not assigned in the connector.

Safety instructions / installation instructions

- The plug connector must not be connected or disconnected under load
- Not suitable for use under water
- When used outdoors, the M12 connections must be protected separately against corrosion

→ Mechanical data

<i>Torque connection</i>	0.4 Nm
<i>Tightening torque fixing nut</i>	1 Nm ... 1.7 Nm
<i>Mounting position</i>	Any
<i>Release</i>	Twist to release left/right
<i>Mechanical lifetime</i>	50,000 switching cycles
<i>Switching position indicator</i>	Yes
<i>Positive opening</i>	Acc. to EN60947-5-1, appendix K

→ Mechanical note

Safety instructions / installation instructions

- The M12 connection must not be subjected to mechanical loads, ensure sufficient strain relief!

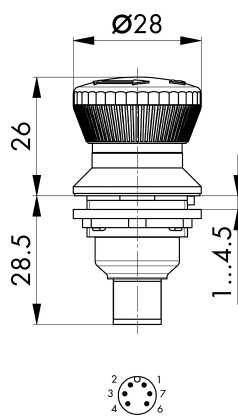
→ Safety data

B10d 250,000

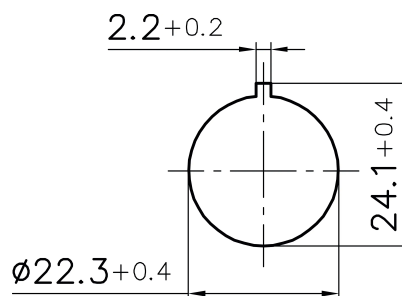
Lifetime 20 % NC

Technical drawings

→ Dimensional drawing



→ Cutout dimensions



→ Circuit diagram

