

Product No: 101029153

SCHMERSAL ENCLOSED HINGE SAFETY SWITCH 101029153

Note: for other input voltages, a special light element must be used



General Information

Brand	SCHMERSAL
Cable Note	All indications including the conductor ferrules.
Coding Level According to EN ISO 14119	Low
EAN	4030660000000
eCl@ss Number, Version 11.0	27-27-06-01
eCl@ss Number, Version 9.0	27-27-06-01
ETIM 6.0	EC000030
ETIM 7.0	EC000030
Housing Construction Form	Cylinder thread
No. of Beams	60
Product Type	Switch
Protection Class of Operating Resource	3
Recommended Actuator	BPS 300 BPS 303 BPS 303 SS
Recommended Safety Switchgear	SRB-E 301
Version	Embeddable button - Front plate mounting
Working Principle	Magnetic drive

Technical Attributes

No. of Auxiliary Contacts	1
Switchover Time (ms)	5.5
Actuating Torque (Nm)	0.15
Actuator Type to EN 50047	B

Assured "OFF" Switching Distance (mm)	15
Assured "ON" Switching Distance (mm)	5
Bounce Duration	Bounce duration in accordance with actuating speed
Coding Type	Individual coding, multiple teaching
Connector Type	Connector plug M12, 4-pole
Contact Material	Silver
Design of Control Element	p-type
Detection Ability for Test Bodies @ V = 1.6 m/s	40 mm
Height of The Protection Field (mm)	1930
Integral System Diagnostics Status	Yes
Latching Force (N)	30
Maximum Actuating Speed (m/s)	0.5
Maximum Bounce Duration (ms)	5
Maximum Cable Cross Section (mm ²)	2 x 1.5
Maximum Electrical Power Consumption (W)	8.5
Maximum Fuse Rating	6 A gG D-fuse
Maximum Holding Force (N)	2550
Maximum Leakage Current (mA)	0.5
Maximum No-load Supply Current (mA)	100
Maximum Output Current (A)	0.25
Maximum Permissible Installation Altitude Above Sea Level (m)	2000
Maximum Protection Field (mm)	12000
Maximum Reaction Time (ms)	28
Maximum Switching Capacity (W)	60
Maximum Switching Current (A)	0.1
Maximum Switching Frequency (Hz)	5
Maximum Switching Voltage DC (V)	24
Minimum Actuating Force (N)	9
Minimum Actuating Speed (mm/min)	60
Minimum Cable Cross Section (mm ²)	0.75

Minimum Positive Break Force (N)	40
Minimum Protection Field (mm)	300
No. of Actuating Directions	1
No. of Cable Wires	4
No. of Normally-open Contacts	1
No. of Safety Contacts	2
Overtoltage Category	3
Positive Break Torque (Nm)	0.6
Positive Break Travel (mm)	5
Rated Control Voltage AC/DC (V)	24
Rated Control Voltage DC (V)	24
Rated Impulse Withstand Voltage (kV)	6
Rated Insulation Voltage (V)	500
Rated Operating Current (mA)	500
Rated Short-circuit Current (A)	1000
Resistance to Shock (g/ms)	30 / 11
Switching Element	NO contact, NC contact
Switching Principle	Slow action
Switchover Time	Switchover time in accordance with actuating speed
Terminal Type	Connector M12
Tolerance	10%
Utilisation Category	DC-13 AC-15
Utilisation Category AC-15	230 VAC
Utilisation Category DC-13	24 VDC
Voltage Type	AC
Wavelength of The Sensor (nm)	880

Physical Attributes

Active Area	Plastic
Actuator Material	Stainless steel
Actuator Type	Roller plunger

Cable Entry	3 x M20 x 1.5
Colour of The Front Ring	Silver
Design	Round
Direction of Motion	Head-on to the active surface
Enclosure Coating Material	Painted
Enclosure Material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Front Ring Material	ABS, chrome-plated
Gross Weight (g)	20
Installation Conditions	Flush
Lever Material	Metal film
Material of The Cable Mantle	PVC
Material of The Operators	Aluminium
Maximum Ambient Temperature (°C)	80
Maximum Relative Humidity	95%
Minimum Ambient Temperature (°C)	-25
Minimum Relative Humidity	30%
Mounting Type	Mounting flange ELM
Net Weight (g)	720
Recipient Terminal Connector Type	Connector plug M12, 5-pole
Roller Material	Plastic
Sealing Type	Form seals / Lip gaskets / Membrane
Storage Temperature (°C)	-25 to 70
Wire Cross-Section	23 AWG

Dimensions

Cable Length (m)	11
Castor Diameter (mm)	36
Depth (mm)	274
Height (mm)	94
Sensor Height (mm)	90

Sensor Length (mm)	30
Spacing (mm)	40 x 50
Width (mm)	82

Protection & Standards

Degree of Protection	IP67
Explosion Protection Category	2D
Explosion Protection Zones	22 2
Pollution Degree	3
Standards	EN IEC 60947-5-1

Resources

Product catalogue (Flipbook)	Download from here
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