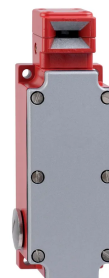


Product No: 101016704

SCHMERSAL SAFETY SWITCH WITH SEPARATE ACTUATOR 101016704

Note: In case of failure (interruption of the 0 V supply) the maximum leakage current is 1 mA.



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	27-27-01-05
eCl@ss Number, Version 9.0	27-27-01-05
ETIM 6.0	EC000030
ETIM 7.0	EC001487
Housing Construction Form	Norm construction design
No. of Beams	56
Product Type	Safety Switch
Protection Class of Operating Resource	3
Recommended Actuator	BPS 33-2326 BPS 33
Recommended Safety Switchgear	SRB-E 301
Version	LED - Indicator light - Front plate mounting
Working Principle	Magnetic drive

Technical Attributes

No. of Auxiliary Contacts	1
Switchover Time (ms)	2
Actuating Position	Front Side / Rear / From Head
Actuating Stroke (mm)	5

Actuating Torque (Nm)	0.31
Actuator Type to EN 50047	EB
Assured "OFF" Switching Distance (mm)	22 32
Assured "ON" Switching Distance (mm)	10 20
Bounce Duration	Bounce duration in accordance with actuating speed
Coding Type	Individual coding
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	35 mm
Height of The Protection Field (mm)	800
Integral System Diagnostics Status	Yes
Latching Force (N)	30
Maximum Actuating Speed (m/s)	18
Maximum Bounce Duration (ms)	5
Maximum Cable Cross Section (mm ²)	1 x 1.0 , flexible
Maximum Electrical Power Consumption (W)	10
Maximum Fuse Rating	6 A gG D-fuse
Maximum Holding Force (N)	1300
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)	10000
Maximum Reaction Time (ms)	10
Maximum Switching Current (A)	0.4
Maximum Switching Frequency (Hz)	5
Maximum Switching Voltage DC (V)	250
Minimum Actuating Force (N)	9
Minimum Actuating Speed (mm/min)	10

Minimum Mechanical Life	20000000 Operations
Minimum Positive Break Force (N)	15
Minimum Protection Field (mm)	300
No. of Actuating Directions	4
No. of Cable Wires	4
No. of Normally-open Contacts	1
No. of Safety Contacts	2
Overvoltage Category	3
Positive Break Torque (Nm)	0.185
Positive Break Travel (mm)	11
Rated Control Voltage AC/DC (V)	24
Rated Control Voltage DC (V)	24
Rated Impulse Withstand Voltage (kV)	6
Rated Insulation Voltage (V)	250
Rated Operating Current (mA)	400
Rated Short-circuit Current (A)	1000
Repeat Accuracy (mm)	0.5
Resistance to Shock (g/ms)	30 / 11
Slide Form	Castor
Switching Element	Opener (NC)
Switching Principle	Slow action
Switchover Time	Switchover time in accordance with actuating speed
Terminal Type	Cage clamps
Thermal Test Current (A)	0.25
Tolerance	10%
Utilisation Category	DC-13 AC-15
Utilisation Category AC-15	230 VAC
Utilisation Category DC-13	24 VDC
Voltage Type	DC AC
Wavelength of The Sensor (nm)	880

Physical Attributes

Active Area	Front side
Actuator Material	Stainless steel
Actuator Type	Roller plunger
Cable Entry	4 x M16 x 1.5
Colour of The Front Ring	Silver
Colour of The Operating Element	Blue
Design	Round
Direction of Motion	Head-on to the active surface
Door Hinge Position	Left
Enclosure Coating Material	Powder-coated
Enclosure Material	Shatterproof glass
Front Ring Material	Aluminium
Gross Weight (g)	16.979
Handle Colour	Grey
Housing Colour	Black Silver
Installation Conditions	Flush
Lead Colour	Colour code DIN47100
Lever Material	Metal film
Material of The Cable Mantle	PVC
Material of The Nuts	Glass-fibre, reinforced thermoplastic
Material of The Operators	ABS
Maximum Ambient Temperature (°C)	80
Maximum Relative Humidity	85%
Minimum Ambient Temperature (°C)	-30
Minimum Relative Humidity	10%
Mounting Type	Mounting flange ELM
Net Weight (g)	53
No. of LEDs	1
Recipient Terminal Connector Type	Connector plug M12, 8-pole
Roller Material	Plastic

Sealing Type	Form seals / Lip gaskets / Membrane
Storage Temperature (°C)	-25 to 70
Unlocking	Draw unlocking
Wire Cross-Section	23 AWG

Dimensions

Cable Length (m)	3
Castor Diameter (mm)	20
Castor Width (mm)	9
Depth (mm)	60
Diameter of The Front Ring (mm)	44.5
Height (mm)	14
Sensor Height (mm)	129.5
Sensor Length (mm)	46.5
Spacing (mm)	40 x 50
Width (mm)	100

Protection & Standards

Degree of Protection	IP67
Explosion Protection Category	3D
Explosion Protection Zones	22
Pollution Degree	3
Standards	EN ISO 13849-1 / EN IEC 62061 / EN IEC 61496-1 / EN IEC 61496-2

Resources

Product catalogue (Flipbook)	Download from here
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