

Product No: 101009662

SCHMERSAL SAFETY SWITCH WITH SEPARATE ACTUATOR 101009662

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



General Information

AS-i Version	V 3.0
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	27-27-26-06
eCl@ss Number, Version 9.0	27-27-26-06
ETIM 6.0	EC001038
ETIM 7.0	EC000632
Housing Construction Form	Norm construction design
No. of Beams	44
Product Type	Safety Switch
Protection Class of Operating Resource	3
Recommended Actuator	2x BP 10 BP 34 BP 20 BP 31 BP 11 BP 12 BP 21 BP 22 S BP 22 N BE 20
Recommended Safety Switchgear	SRB-E-301ST SRB-E-201LC
Version	LED - Indicator light - Front plate mounting
Working Principle	Electromechanical

Technical Attributes

No. of Auxiliary Contacts	1
Switchover Time (ms)	5.5

Actuating Position	Lateral / Front Side
Actuating Stroke (mm)	5
Actuating Torque (Nm)	0.31
Actuator Type to EN 50047	CD
Assured "OFF" Switching Distance (mm)	15 18
Assured "ON" Switching Distance (mm)	5 8
Bounce Duration	Bounce duration in accordance with actuating speed
Coding Type	Individual coding
Connector Latching Type	Screw locking
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	400 mm
Height of The Protection Field (mm)	410
Integral System Diagnostics Status	Yes
Latching Force (N)	30
Maximum Actuating Speed (m/s)	1
Maximum Bounce Duration (ms)	2
Maximum Cable Cross Section (mm ²)	2.5 , rigid 1.5 , flexible
Maximum Electrical Power Consumption (W)	10
Maximum Fuse Rating	6 A gG D-fuse
Maximum Holding Force (N)	1300
Maximum Impact Energy (J)	7
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)	7000
Maximum Reaction Time (ms)	10
Maximum Switching Current (A)	0.4

Maximum Switching Voltage AC (V)	250
Minimum Actuating Force (N)	9
Minimum Actuating Speed (mm/min)	160
Minimum Cable Cross Section (mm ²)	0.75
Minimum Mechanical Life	1000000 Operations
Minimum Positive Break Force (N)	16
Minimum Protection Field (mm)	300
No. of Actuating Directions	3
No. of Cable Wires	3
No. of Normally-open Contacts	1
No. of Safety Contacts	2
Overvoltage Category	3
Positive Break Torque (Nm)	0.6
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)	400
Rated Operating Current (mA)	500
Rated Short-circuit Current (A)	1000
Repeat Accuracy (mm)	0.5
Resistance to Shock (g/ms)	30 / 18
Slide Form	Castor
Switching Element	Bistable contact
Switching Principle	Slow action
Switchover Time	Switchover time in accordance with actuating speed
Terminal Type	Screw terminals M20 x 1.5
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	AC
Wavelength of The Sensor (nm)	880

Physical Attributes

Active Area	Front side
Actuator Material	Stainless steel
Actuator Type	Roller lever
Cable Entry	3 x M20 x 1.5
Colour of The Bellows	Blue
Colour of The Front Ring	Silver
Colour of The Operating Element	Yellow
Design	Round Flat dome
Direction of Motion	Head on or laterally to the active area
Door Hinge Position	Left
Enclosure Coating Material	Painted
Enclosure Material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Front Ring Material	Aluminium
Gland Material	Metal, CuZn, Nickel-plated
Gross Weight (g)	0.395
Handle Colour	Black
Handle Material	Plastic, TPU
Housing Colour	Black Silver
Installation Conditions	Not flush
Lead Colour	Colour code DIN47100
Lever Material	Metal film
Material of The Cable Mantle	PVC
Material of The Nuts	Brass
Material of The Operators	ABS
Maximum Ambient Temperature (°C)	90
Maximum Relative Humidity	85%

Minimum Ambient Temperature (°C)	-25
Minimum Relative Humidity	30%
Mounting Type	Enclosure with mounting slots
Net Weight (g)	357.02
No. of LEDs	1
Recipient Terminal Connector Type	Connector plug M12, 5-pole
Roller Material	Plastic
Sealing Type	Lip gaskets / Membrane
Storage Temperature (°C)	-25 to 70
Unlocking	Without
Wire Cross-Section	23 AWG

Dimensions

Actuator Length (mm)	85
Cable Length (m)	100
Castor Diameter (mm)	36
Castor Width (mm)	6.5
Depth (mm)	85
Diameter of The Front Ring (mm)	29.5
Height (mm)	260
Sensor Height (mm)	114
Sensor Length (mm)	42.5
Spacing (mm)	50 x 50
Total Diameter (mm)	39.5
Width (mm)	25

Protection & Standards

Degree of Protection	IP67
Explosion Protection Category	3D 3G
Explosion Protection Zones	21
Pollution Degree	2

Resources

Product catalogue (Flipbook)

[Download from here](#)
