

## Product No: 101009594

### SCHMERSAL POSITION SWITCH INC+INO 101009594

*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	27-37-12-19
eCl@ss Number, Version 9.0	27-37-12-19
ETIM 6.0	EC001038
ETIM 7.0	EC000632
Housing Construction Form	Norm construction design
No. of Beams	40
Product Type	Limit Switch
Protection Class of Operating Resource	3
Recommended Actuator	BP10 S   2x BP10 S   BP15 S   BP 34 S   BP 20 S   BP 31 S   BP11 S   2x BP11 S   BP12 S   2x BP12S   BP 21 S   2x BP 21 S   BP 22 S   2x BP 22 S   BE 20 S
Recommended Safety Switchgear	SRB-E-301ST   SRB-E-201LC
Version	Latched pushbutton - Front plate mounting
Working Principle	Electromechanical

#### Technical Attributes

No. of Auxiliary Contacts	1
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Actuating Angle	30 °, from left of switch axis
Actuating Position	Lateral / Front Side
Actuating Stroke (mm)	5
Actuating Torque (Nm)	0.31
Actuator Type to EN 50047	AC
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, multiple teaching
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	500 mm
Height of The Protection Field (mm)	330
Integral System Diagnostics Status	Yes
Latching Force (N)	5
Maximum Actuating Speed (m/s)	2.5
Maximum Bounce Duration (ms)	3
Maximum Cable Cross Section (mm <sup>2</sup> )	2.5 , rigid   1.5 , flexible
Maximum Electrical Power Consumption (W)	12
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 Frequency (Hz)	5
Maximum Switching Voltage AC (V)	250
Minimum Actuating Force (N)	6
Minimum Actuating Speed (mm/min)	20
Minimum Cable Cross Section (mm <sup>2</sup> )	0.34
Minimum Mechanical Life	10000000 Operations
Minimum Positive Break Force (N)	16
Minimum Protection Field (mm)	300
No. of Actuating Directions	3
No. of Cable Wires	4
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)	50
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	Lateral
Actuator Material	Stainless steel
Actuator Type	Rod lever
Cable Entry	3 x M16 x 1.5
Colour of The Bellows	Blue
Colour of The Front Ring	Silver
Colour of The Operating Element	Green
Design	Round   Flat dome
Direction of Motion	Head-on to the active surface
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)	78.8
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	Plastic
Material of The Operators	ABS
Maximum Ambient Temperature (°C)	60

Maximum Relative Humidity	85%
Minimum Ambient Temperature (°C)	-25
Minimum Relative Humidity	30%
Mounting Type	Mounting with clamping foot and sheathed cable
Net Weight (g)	317.79
No. of LEDs	2
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)	80
Diameter of The Front Ring (mm)	29.5
Height (mm)	11
Sensor Height (mm)	52
Sensor Length (mm)	57
Spacing (mm)	50 x 50
Total Diameter (mm)	39.5
Width (mm)	25

#### Protection & Standards

Degree of Protection	IP65
Degree of Protection - Enclosure	IP40
Explosion Protection Category	3D   3G
Explosion Protection Zones	1   21

Pollution Degree 2

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Standards EN IEC 60947-5-3 / BG-GS-ET-14

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## Resources

Product catalogue (Flipbook) [Download from here](#)

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