

Product No: 101014461

SCHMERSAL RADIUS ACTUATOR BOR ACTUATOR: STRAIGHT 101014461

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



General Information

AS-i Version	V 2.1
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	EC001260
ETIM 7.0	EC002592
Housing Construction Form	Norm construction design
No. of Beams	92
Product Type	Sensor
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	Magnetic drive

Technical Attributes

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

Actuating Stroke (mm)	5
Actuating Torque (Nm)	0.15
Actuator Type to EN 50047	AB
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	14 mm
Height of The Protection Field (mm)	1450
Integral System Diagnostics Status	Yes
Latching Force (N)	30
Maximum Actuating Speed (m/s)	2.5
Maximum Bounce Duration (ms)	5
Maximum Cable Cross Section (mm ²)	2.5
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)	50
Maximum Output Current (A)	0.25
Maximum Permissible Installation Altitude Above Sea Level (m)	2000
Maximum Protection Field (mm)	10000
Maximum Reaction Time (ms)	20
Maximum Switching Current (A)	0.01
Maximum Switching Frequency (Hz)	5
Maximum Switching Voltage AC (V)	100
Minimum Actuating Force (N)	9

Minimum Cable Cross Section (mm ²)	0.75
Minimum Mechanical Life	30000000 Operations
Minimum Positive Break Force (N)	50
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 (V)	230
Rated Control Voltage DC (V)	24
Rated Impulse Withstand Voltage (kV)	4
Rated Insulation Voltage (V)	500
Rated Operating Current (mA)	1000
Rated Short-circuit Current (A)	1000
Repeat Accuracy (mm)	0.5
Resistance to Shock (g/ms)	30 / 11
Slide Form	Sphere
Switching Element	NO contact, NC contact
Switching Principle	Slow action
Switchover Time	Switchover time in accordance with actuating speed
Terminal Type	Pre-wired cable
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	Magnet
Cable Entry	4 x M16 x 1.5
Colour of The Front Ring	Silver
Colour of The Operating Element	Black
Design	Round High calotte
Direction of Motion	Head-on to the active surface
Door Hinge Position	Right
Enclosure Coating Material	Painted
Enclosure Material	Shatterproof glass
Front Ring Material	ABS, chrome-plated
Gross Weight (g)	100
Handle Colour	Black
Housing Colour	Black Silver
Installation Conditions	Flush
Lead Colour	Colour code DIN47100
Lever Material	Plastic
Material of The Cable Mantle	Thermoflex 155
Material of The Nuts	Glass-fibre, reinforced thermoplastic
Material of The Operators	Plastic
Maximum Ambient Temperature (°C)	80
Maximum Relative Humidity	85%
Minimum Ambient Temperature (°C)	-25
Minimum Relative Humidity	30%
Mounting Type	Mounting flange ELM
Net Weight (g)	85
No. of LEDs	1
Recipient Terminal Connector Type	Connector plug M12, 8-pole
Roller Material	Plastic

Sealing Type	Lip gaskets / Membrane
Storage Temperature (°C)	-25 to 70
Unlocking	Without
Wire Cross-Section	23 AWG

Dimensions

Cable Length (m)	100
Castor Diameter (mm)	20
Castor Width (mm)	9
Depth (mm)	150
Diameter of The Front Ring (mm)	39.5
Height (mm)	11.3
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	1 21
Pollution Degree	3
Standards	EN IEC 60947-5-1 / EN IEC 60947-5-5 / EN ISO 13850 / EN IEC 60947-1 / EN ISO 13851

Resources

Product catalogue (Flipbook)	Download from here
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