

## Product No: 101056832

### SCHMERSAL INDUCTIVE PROXIMITY SWITCH, DISTANCE 10mm IFL 10-30-10/01YG

*Note: Switches can be mounted adjacent to each other without interference. | with 2 screws M3 x 6 for rear mounting | maximum screwing depth: 6 mm*



#### 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	27-27-01-92
eCl@ss Number, Version 9.0	27-27-01-92
ETIM 6.0	EC000030
ETIM 7.0	EC001487
Housing Construction Form	Cylinder thread
No. of Beams	56
Product Type	Proximity Switch
Protection Class of Operating Resource	3
Recommended Actuator	BPS 36-2
Recommended Safety Switchgear	SRB-E 301
Version	Embeddable button - Front plate mounting
Working Principle	Electromechanical

#### Technical Attributes

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

Assured "OFF" Switching Distance (mm)	17
Assured "ON" Switching Distance (mm)	6
Bounce Duration	Bounce duration in accordance with actuating speed
Coding Type	Universal 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)	1130
Integral System Diagnostics Status	Yes
Latching Force (N)	20
Maximum Actuating Speed (m/s)	1
Maximum Bounce Duration (ms)	2
Maximum Cable Cross Section (mm <sup>2</sup> )	2.5
Maximum Electrical Power Consumption (W)	12
Maximum Fuse Rating	6 A gL/gG D-fuse
Maximum Holding Force (N)	2600
Maximum Leakage Current (mA)	0.5
Maximum No-load Supply Current (mA)	500
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 Capacity (VA)	80
Maximum Switching Current (A)	0.25
Maximum Switching Frequency (Hz)	5
Maximum Switching Voltage AC (V)	250
Minimum Actuating Force (N)	3
Minimum Actuating Speed (mm/min)	60
Minimum Cable Cross Section (mm <sup>2</sup> )	0.5

Minimum Positive Break Force (N)	50
Minimum Protection Field (mm)	3000
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 Travel (mm)	2
Rated Control Voltage AC (V)	230
Rated Control Voltage DC (V)	24
Rated Impulse Withstand Voltage (kV)	6
Rated Insulation Voltage (V)	400
Rated Operating Current (mA)	50
Rated Short-circuit Current (A)	1000
Switching Element	Normally open contact (NO)
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	25 A, 230 VAC
Utilisation Category DC-13	2.5 A, 24 VDC
Wavelength of The Sensor (nm)	850

### Physical Attributes

Active Area	Plastic
Actuator Type	Roller lever
Cable Entry	Without cable gland
Colour of The Front Ring	Black
Design	Straight

Direction of Motion	Head-on to the active surface
Enclosure Coating Material	Nickel-plated
Enclosure Material	Glass-fibre, reinforced thermoplastic
Front Ring Material	Aluminium
Gross Weight (g)	155.5
Installation Conditions	Not flush
Lever Material	Plastic
Material of The Cable Mantle	PVC
Material of The Operators	ABS
Maximum Ambient Temperature (°C)	80
Maximum Relative Humidity	95%
Minimum Ambient Temperature (°C)	-30
Mounting Type	Mounting flange EFM
Net Weight (g)	20
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)	1
Depth (mm)	19
Height (mm)	91
Sensor Height (mm)	451
Sensor Length (mm)	30
Spacing (mm)	50 x 50
Width (mm)	40

### Protection & Standards

Degree of Protection	IP66 / IP67
Explosion Protection Category	3D   3G

Explosion Protection Zones	22   2
Pollution Degree	3
Standards	EN IEC 60947-5-1

## Resources

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