

Product No: 101099563

SCHMERSAL IFL5-18-10STP INDUCTIVE PROXIMITY SWITCH 101099563

FEATURES

- Inductive proximity switch with a 2 mm switching distance
- DC 3-wire connection system
- Cylinder shape with M12 ISO thread for mounting
- Equipped with an M12 connector
- Normally closed (NC) switching element configuration
- Brass enclosure material for durability
- Operating voltage range of 10 to 30 VDC
- Maximum output current of 200 mA
- High switching frequency of 1,000 Hz



Note: Contact symbols shown for the closed condition of the guard device. | The contact configuration for versions with or without LED is identical.

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	27-37-12-43
eCl@ss Number, Version 9.0	27-27-26-92
ETIM 6.0	EC002594
ETIM 7.0	EC001449
Housing Construction Form	Norm construction design
Product Type	Proximity Switch
Protection Class of Operating Resource	3
Recommended Actuator	MZM 100-B1.1
Recommended Safety Switchgear	SRB-E-301ST SRB-E-201LC
Series	IFL
Working Principle	Mechanical

Technical Attributes

No. of Auxiliary Contacts	1
Contact Material	Silver
Design of Control Element	Short-circuit proof, p-type
Latching Force (N)	30
Maximum Actuating Speed (m/s)	2
Maximum Bounce Duration (ms)	0.6
Maximum Cable Cross Section (mm ²)	2.5
Maximum Fuse Rating	6 A gG D-fuse
Maximum Nominal Output Voltage DC (V)	1.2
Maximum Switching Capacity (W)	10
Minimum Actuating Force (N)	12
Minimum Actuating Speed (mm/min)	687
Minimum Cable Cross Section (mm ²)	0.75
Minimum Mechanical Life	30000 Operations
Minimum Positive Break Force (N)	19
No. of Actuating Directions	3
No. of Normally-open Contacts	1
No. of Safety Contacts	2
Nominal Output Current (A)	0.2
Overvoltage Category	3
Positive Break Travel (mm)	11
Rated Impulse Withstand Voltage (kV)	6
Rated Insulation Voltage (V)	300
Rated Maximum Operational Voltage DC (V)	30
Rated Minimum Operational Voltage DC (V)	10
Rated Operating Current (mA)	50
Rated Operational Current (A)	0.2
Rated Short-circuit Current (A)	400
Resistance to Shock (g/ms)	30 / 11
Switching Element	Opener (NC)
Switching Principle	Slow action

Terminal Type	Spring pulley connection
Utilisation Category	DC-13 AC-15
Utilisation Category DC-13	0.05 A

Physical Attributes

Actuator Type	Plunger
Enclosure Coating Material	Painted
Enclosure Material	Light-alloy diecast, paint finish
Gross Weight (g)	1265
Installation Conditions	Quasi-flush
Maximum Ambient Temperature (°C)	70
Maximum Temperature (°C)	70
Minimum Ambient Temperature (°C)	-30
Minimum Temperature (°C)	-25
Mounting Type	Threaded
Net Weight (g)	285
Storage Temperature (°C)	25 to 85
Wire Cross-Section	0.25 mm

Dimensions

Cable Length (m)	5
Depth (mm)	121
Height (mm)	80
Sensor Height (mm)	100
Sensor Length (mm)	33
Width (mm)	165

Protection & Standards

Degree of Protection	IP67
Pollution Degree	2
Standards	EN IEC 60947-5-1 / EN ISO 13849-1 / BG-GS-ET-15

Resources

Product catalogue (Flipbook)

[Download from here](#)
