

Product No: 101138969

SCHMERSAL IFL8-18L-11N INDUCTIVE PROXIMITY SWITCH 101138969

FEATURES

- Inductive proximity switch with a long design
- DC 4-wire connection
- Cylinder shape with ISO thread M18
- Sensing distance of 5 mm
- Equipped with connector cable
- Features both NO (Normally Open) and NC (Normally Closed) contacts
- Metal enclosure material for durability
- Operating voltage range: 10 to 60 VDC
- Rated output current: 400 mA



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	27-27-24-04
eCl@ss Number, Version 9.0	27-37-12-05
ETIM 6.0	EC000200
ETIM 7.0	EC002544
Housing Construction Form	Norm construction design
Product Type	Proximity Switch
Protection Class of Operating Resource	3
Series	IFL
Working Principle	Electromechanical

Technical Attributes	
No. of Auxiliary Contacts	4



Maximum Cable Cross Section (mm²) 2.5 Maximum Fuse Rating 6 A gG D-fuse Maximum Nominal Output Voltage DC (V) 1.5 Minimum Actuating Speed (mm/min) 1 Minimum Cable Cross Section (mm²) 0.5 Minimum Mechanical Life 1000000 Operations Minimum Positive Break Force (N) 19 No. of Safety Contacts 2 Nominal Output Current (A) 0.4 Overvoltage Category 3 Rated Impulse Withstand Voltage (kV) 4 Rated Insulation Voltage (V) 500 Rated Maximum Operational Voltage DC (V) 60 Rated Minimum Operational Voltage DC (V) 10 Rated Operational Current (A) 0.4 Rated Short-circuit Current (A) 1000 Resistance to Shock (g/ms) 30 / 11 Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable Utilisation Category DC-13 AC-15	Maximum Actuating Speed (m/s)	2.5
Maximum Nominal Output Voltage DC (V) 1.5 Minimum Actuating Speed (mm/min) 1 Minimum Cable Cross Section (mm²) 0.5 Minimum Mechanical Life 10000000 Operations Minimum Positive Break Force (N) 19 No. of Safety Contacts 2 Nominal Output Current (A) 0.4 Overvoltage Category 3 Rated Impulse Withstand Voltage (kV) 4 Rated Insulation Voltage (V) 500 Rated Maximum Operational Voltage DC (V) 60 Rated Operational Current (A) 0.4 Rated Short-circuit Current (A) 1000 Resistance to Shock (g/ms) 30 / 11 Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	Maximum Cable Cross Section (mm²)	2.5
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Minimum Cable Cross Section (mm²) 0.5 Minimum Mechanical Life 1000000 Operations Minimum Positive Break Force (N) 19 No. of Safety Contacts 2 Nominal Output Current (A) 0.4 Overvoltage Category 3 Rated Impulse Withstand Voltage (kV) 4 Rated Insulation Voltage (V) 500 Rated Maximum Operational Voltage DC (V) 60 Rated Operational Current (A) 0.4 Rated Short-circuit Current (A) 0.4 Resistance to Shock (g/ms) 30 / 11 Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	Maximum Nominal Output Voltage DC (V)	1.5
Minimum Mechanical Life 1000000 Operations Minimum Positive Break Force (N) 19 No. of Safety Contacts 2 Nominal Output Current (A) 0.4 Overvoltage Category 3 Rated Impulse Withstand Voltage (kV) 4 Rated Insulation Voltage (V) 500 Rated Maximum Operational Voltage DC (V) 60 Rated Operational Current (A) 0.4 Rated Short-circuit Current (A) 1000 Resistance to Shock (g/ms) 30 / 11 Switching Element Openational Switching Principle Snap action Terminal Type Cable	Minimum Actuating Speed (mm/min)	1
Minimum Positive Break Force (N) 19 No. of Safety Contacts 2 Nominal Output Current (A) 0.4 Overvoltage Category 3 Rated Impulse Withstand Voltage (kV) 4 Rated Insulation Voltage (V) 500 Rated Maximum Operational Voltage DC (V) 60 Rated Minimum Operational Voltage DC (V) 10 Rated Operational Current (A) 0.4 Rated Short-circuit Current (A) 1000 Resistance to Shock (g/ms) 30 / 11 Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	Minimum Cable Cross Section (mm²)	0.5
No. of Safety Contacts 2 Nominal Output Current (A) 0.4 Overvoltage Category 3 Rated Impulse Withstand Voltage (kV) 4 Rated Insulation Voltage (V) 500 Rated Maximum Operational Voltage DC (V) 60 Rated Minimum Operational Voltage DC (V) 10 Rated Operational Current (A) 0.4 Rated Short-circuit Current (A) 1000 Resistance to Shock (g/ms) 30 / 11 Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	Minimum Mechanical Life	1000000 Operations
Nominal Output Current (A) Overvoltage Category Rated Impulse Withstand Voltage (kV) Rated Insulation Voltage (V) Rated Maximum Operational Voltage DC (V) Rated Minimum Operational Voltage DC (V) Rated Operational Current (A) Rated Short-circuit Current (A) Resistance to Shock (g/ms) Switching Element Opener (NC) Switching Principle Snap action Terminal Type	Minimum Positive Break Force (N)	19
Overvoltage Category 3 Rated Impulse Withstand Voltage (kV) 4 Rated Insulation Voltage (V) 500 Rated Maximum Operational Voltage DC (V) 60 Rated Minimum Operational Voltage DC (V) 10 Rated Operational Current (A) 0.4 Rated Short-circuit Current (A) 1000 Resistance to Shock (g/ms) 30 / 11 Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	No. of Safety Contacts	2
Rated Impulse Withstand Voltage (kV) Rated Insulation Voltage (V) Rated Maximum Operational Voltage DC (V) Rated Minimum Operational Voltage DC (V) Rated Operational Current (A) Rated Short-circuit Current (A) Resistance to Shock (g/ms) Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	Nominal Output Current (A)	0.4
Rated Insulation Voltage (V) Rated Maximum Operational Voltage DC (V) Rated Minimum Operational Voltage DC (V) Rated Operational Current (A) Rated Short-circuit Current (A) Resistance to Shock (g/ms) Switching Element Opener (NC) Switching Principle Terminal Type 500 60 10 0.4 Rated Minimum Operational Voltage DC (V) 10 O.4 Rated Short-circuit Current (A) 1000 Resistance to Shock (g/ms) Snap action Cable	Overvoltage Category	3
Rated Maximum Operational Voltage DC (V) Rated Minimum Operational Voltage DC (V) Rated Operational Current (A) Rated Short-circuit Current (A) Resistance to Shock (g/ms) Switching Element Opener (NC) Switching Principle Terminal Type Cable	Rated Impulse Withstand Voltage (kV)	4
Rated Minimum Operational Voltage DC (V) Rated Operational Current (A) Rated Short-circuit Current (A) Resistance to Shock (g/ms) Switching Element Opener (NC) Switching Principle Terminal Type 10 0.4 1000 Rated Short-circuit Current (A) 1000 Resistance to Shock (g/ms) 30 / 11 Switching Principle Snap action Cable	Rated Insulation Voltage (V)	500
Rated Operational Current (A) Rated Short-circuit Current (A) Resistance to Shock (g/ms) Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	Rated Maximum Operational Voltage DC (V)	60
Rated Short-circuit Current (A) Resistance to Shock (g/ms) Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	Rated Minimum Operational Voltage DC (V)	10
Resistance to Shock (g/ms) Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	Rated Operational Current (A)	0.4
Switching Element Opener (NC) Switching Principle Snap action Terminal Type Cable	Rated Short-circuit Current (A)	1000
Switching Principle Snap action Terminal Type Cable	Resistance to Shock (g/ms)	30 / 11
Terminal Type Cable	Switching Element	Opener (NC)
	Switching Principle	Snap action
Utilisation Category DC-13 AC-15	Terminal Type	Cable
	Utilisation Category	DC-13 AC-15

Physical Attributes	
Actuator Type	Magnet
Enclosure Coating Material	Painted
Enclosure Material	Glass-fibre, reinforced thermoplastic
Gross Weight (g)	30
Maximum Ambient Temperature (°C)	70
Maximum Temperature (°C)	70
Minimum Ambient Temperature (°C)	-30
Minimum Temperature (°C)	-25



Mounting Type	Threaded
Net Weight (g)	40
Storage Temperature (°C)	25 to 85
Wire Cross-Section	13 AWG

Dimensions		
Height (mm)	100	
Sensor Height (mm)	25	
Sensor Length (mm)	30	

Protection & Standards	
Degree of Protection	IP67
Pollution Degree	3
Standards	EN IEC 60947-5-1 / EN IEC 60947-5-5 / EN IEC 60947-1

Resources	
Product catalogue (Flipbook)	Download from here