

Product No: 101092423

SCHMERSAL IFL10-180-10 INDUCTIVE PROXIMITY SWITCH 101092423

FEATURES

- Belt alignment switch with metal enclosure
- 1 opener and 1 shutter
- Screw connection terminal connector
- NO (Normally Open) and NC (Normally Closed) contacts
- Thermal test current: 16 A
- Utilisation category AC-15: 230 VAC, 4 A
- IP Rating: IP65 for dust and water resistance
- Operating temperature range from -30 °C to +90 °C

Note: The switch is to be mounted on iron with a non-magnetic layer of at least 20 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	27-27-27-92
eCl@ss Number, Version 9.0	27-27-27-92
ETIM 6.0	EC002544
ETIM 7.0	EC000030
Housing Construction Form	Norm construction design
Product Type	Proximity Switch
Protection Class of Operating Resource	2
Recommended Actuator	MZM 100-B1.1
Recommended Safety Switchgear	SRB 301AN SRB-E-301ST SRB-E-201LC
Series	IFL
Working Principle	Magnetic drive

Technical Attributes

No. of Auxiliary Contacts	2
Assured "OFF" Switching Distance (mm)	20
Assured "ON" Switching Distance (mm)	10
Contact Material	Silver
Design of Control Element	Short-circuit proof, p-type
Latching Force (N)	30
Maximum Actuating Speed (m/s)	1
Maximum Bounce Duration (ms)	3
Maximum Cable Cross Section (mm ²)	1 x 2.5
Maximum Electrical Power Consumption (W)	5
Maximum Fuse Rating	6 A gG D-fuse
Maximum Holding Force (N)	1500
Maximum Nominal Output Voltage DC (V)	4.5
Maximum Switching Capacity (W)	10
Minimum Actuating Force (N)	17
Minimum Actuating Speed (mm/min)	492
Minimum Cable Cross Section (mm ²)	0.75
Minimum Mechanical Life	1000000 Operations
Minimum Positive Break Force (N)	40
No. of Actuating Directions	2
No. of Normally-open Contacts	2
No. of Safety Contacts	2
Nominal Output Current (A)	0.2
Overvoltage Category	3
Positive Break Travel (mm)	10
Rated Impulse Withstand Voltage (kV)	6
Rated Insulation Voltage (V)	500
Rated Maximum Operational Voltage AC (V)	250
Rated Minimum Operational Voltage AC (V)	15
Rated Operating Current (mA)	50
Rated Operational Current (A)	0.5

Resistance to Shock (g/ms)	50 / 6
Switching Element	1 NO contact, 1 NC contacts
Switching Principle	Slow action
Terminal Type	Screw terminals M20 x 1.5
Utilisation Category	AC-15
Utilisation Category AC-15	2.5 A

Physical Attributes

Actuator Type	Roller plunger
Enclosure Coating Material	Painted
Enclosure Material	Plastic
Gross Weight (g)	40.39
Installation Conditions	Not flush
Maximum Ambient Temperature (°C)	55
Maximum Temperature (°C)	70
Minimum Ambient Temperature (°C)	0
Minimum Temperature (°C)	-25
Mounting Type	Threaded
Net Weight (g)	25.885
Storage Temperature (°C)	-25 to 70
Wire Cross-Section	0.25 mm

Dimensions

Cable Length (m)	200
Depth (mm)	115
Height (mm)	45
Sensor Height (mm)	36
Sensor Length (mm)	39
Width (mm)	165

Protection & Standards

Degree of Protection	IP67
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Pollution Degree 2

Standards EN IEC 60947-5-1 / EN IEC 60947-1

Resources

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