

Product No: 101056640

SCHMERSAL INDUCTIVE PROXIMITY SWITCH, DISTANCE 20mm IFL 20-400-10/01YG

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

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| 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 | 48 |
| Product Type | Proximity Switch |
| Protection Class of Operating Resource | 3 |
| Recommended Actuator | BPS 36-2 |
| Recommended Safety Switchgear | SRB-E 301 |
| Version | Round Push button |
| Working Principle | Magnetic drive |

Technical Attributes

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| No. of Auxiliary Contacts | 1 |
| Switchover Time (ms) | 5.5 |
| Actuating Torque (Nm) | 0.31 |
| Actuator Type to EN 50047 | C |

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| 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) | 1050 |
| 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 ²) | 2.5 |
| Maximum Electrical Power Consumption (W) | 10 |
| Maximum Fuse Rating | 6 A gG D-fuse |
| Maximum Holding Force (N) | 2600 |
| Maximum Leakage Current (mA) | 0.5 |
| Maximum No-load Supply Current (mA) | 600 |
| 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) | 120 |
| Maximum Switching Current (A) | 0.25 |
| Maximum Switching Frequency (Hz) | 5 |
| Maximum Switching Voltage DC (V) | 24 |
| Minimum Actuating Force (N) | 3 |
| Minimum Actuating Speed (mm/min) | 60 |
| Minimum Cable Cross Section (mm ²) | 0.5 |

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| Minimum Positive Break Force (N) | 50 |
| Minimum Protection Field (mm) | 3000 |
| No. of Actuating Directions | 3 |
| No. of Cable Wires | 4 |
| No. of Normally-open Contacts | 1 |
| No. of Safety Contacts | 1 |
| Overtoltage Category | 3 |
| Positive Break Travel (mm) | 2 |
| Rated Control Voltage AC/DC (V) | 24 |
| Rated Control Voltage DC (V) | 24 |
| Rated Impulse Withstand Voltage (kV) | 6 |
| Rated Insulation Voltage (V) | 400 |
| Rated Operating Current (mA) | 12000 |
| 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 MI2 |
| 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 |
| Voltage Type | DC |
| Wavelength of The Sensor (nm) | 850 |

Physical Attributes

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| Active Area | Plastic |
| Actuator Type | Swivel lever |
| Cable Entry | Without cable gland |
| Colour of The Front Ring | Black |

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| 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) | 150 |
| Installation Conditions | Not flush |
| Lever Material | Metal film |
| 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 | 0.25 mm |

Dimensions

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| Cable Length (m) | 5 |
| Depth (mm) | 19 |
| Height (mm) | 91 |
| Sensor Height (mm) | 371 |
| Sensor Length (mm) | 36 |
| Spacing (mm) | 80 x 80 |
| Width (mm) | 40 |

Protection & Standards

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| Degree of Protection | IP66 / IP67 |
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| Explosion Protection Category | 3D 3G |
| Explosion Protection Zones | 22 2 |
| Pollution Degree | 3 |
| Standards | EN IEC 60947-5-2 / DIN VDE 0660-208 |

Resources

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| Product catalogue (Flipbook) | Download from here |
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