

KN120100

CAPACITIVE SENSORS • NORM SWITCHING DISTANCE

sensor capacitive, M12x1 50long, Non-flush, Sn: 0.5-10, 10-35V DC, PNP NO, Cable 2m PVC, IP67, V2A, LED, Manual adjustment



MECHANICAL FEATURES

| | |
|--|-------------------------------|
| Active area material of sensor | Polytetrafluorethylene (PTFE) |
| Ambient temperature | -25 °C ... 70 °C |
| Cable length | 2 m |
| Degree of protection (IP) | IP67 |
| Design | Cylinder, screw-thread |
| Housing material | Stainless steel (V2A) |
| Material of cable sheath | PVC |
| Mechanical mounting condition for sensor | Non-flush |
| Number of cores | 3 |
| Pressure-proof | - |
| Sensor length | 50 mm |
| Thread length | 45 mm |
| Thread pitch | 1 mm |
| Thread size, metric | 12 |

ELECTRICAL FEATURES

| | |
|--|-------------------|
| Cascadable | - |
| Correction factor (glass) | 0.6 |
| Correction factor (oil) | 0.5 |
| Correction factor (PVC) | 0.5 |
| Correction factor (wood) | 0.6 |
| Hysteresis | 15 % |
| No-load current | 15 mA |
| Rated control supply voltage U_s at DC | 10 V ... 35 V |
| Rated switching current | 250 mA |
| Reverse polarity protection | + |
| Setting procedure | Manual adjustment |
| Short-circuit protection | + |
| Suitable for safety functions | - |
| Supply voltage | 10 V ... 35 V |
| Switching distance | 4 mm |
| Switching distance | 0.5 mm ... 10 mm |
| Switching frequency | 50 Hz |

ELECTRICAL FEATURES

| | |
|--|-----------------------|
| Type of electrical connection | Cable |
| Type of switching function | Normally open contact |
| Type of switching output | PNP |
| Voltage drop | 2 V |
| Voltage type | DC |
| With LED display | + |
| With monitoring function of downstream devices | - |

OTHER FEATURES

| | |
|-----------------|---|
| Level detection | + |
|-----------------|---|

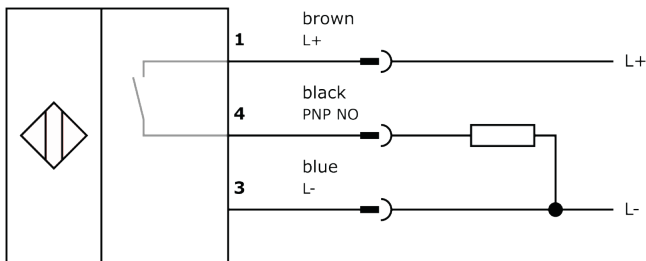
Other

| | |
|----------------------|---------------------------|
| Packaging dimensions | 77.0mm x 25.0mm x 123.0mm |
| Shipping weight | 0.07kg |
| Tariff code | 85365019 |

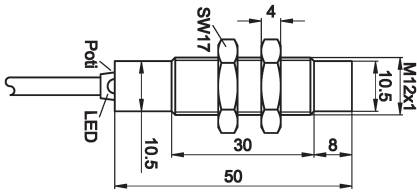
Classification

| | |
|-------------------|----------|
| ipf product group | 240 |
| eClass 8.0 | 27270102 |
| eClass 9.0 | 27270102 |
| eClass 9.1 | 27270102 |
| ETIM-5.0 | EC002715 |
| ETIM-6.0 | EC002715 |
| ETIM-7.0 | EC002715 |

Connection



Dimensional drawing



Installation



Mounting / installation may only be carried out by a qualified electrician!

Disposal



Safety warnings

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information. Never use these devices in applications where the safety of a person depends on their functionality. LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.

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