

KB12A714

Capacitive sensors • Norm switching distance

sensor capacitive, M12x1 76long, Flush, Sn: 6, 10-35V DC, PNP NO, Connector M12, IP67, Stainless steel, LED, Manual adjustment

including 2x Nut, 1x Screwdriver



Capacitive proximity switches are contact-free sensors. They detect metallic and non-metallic objects, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material, its dimensions and the response sensitivity, which is set via a potentiometer. The vibration-resistant sensors can be approached laterally or frontally. Capacitive proximity switches are used for presence detection (e.g. sealing detection), positioning (e.g. PET bottles), counting (e.g. plastic caps), level detection (e.g. lubricant) or distance measurements (e.g. thickness measurement) of solid and liquid materials.

Electrical features

| | |
|-------------------------------|----------------------------|
| Display | LED display |
| Type of switching function | Normally open contact (NO) |
| Type of electrical connection | Connector M12 |
| Type of switching output | PNP |
| Rated switching current | 250mA |
| Setting procedure | Potentiometer |
| Short-circuit protection | Yes |
| Switching distance | 6mm |
| Reverse polarity protection | Yes |
| Operating voltage (DC) | 10 - 35V |
| Output functions | Switching point |

Mechanical features

| | |
|--|------------------------|
| Design | Cylinder, screw-thread |
| Thread pitch | 1mm |
| Length | 76mm |
| Mechanical mounting condition for sensor | flush |
| Degree of protection (IP) | IP67 |
| Active area material of sensor | Plastic (PTFE) |
| Housing material | Stainless steel |
| Thread dimension | M12 |

Other features

| | |
|---------------------------|--|
| Level detection | Yes |
| Reference medium / object | Material with permittivity $\epsilon_r=81$ |

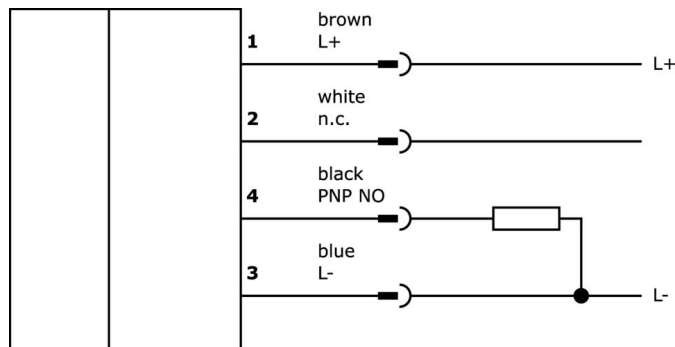
Classification

| | |
|--------|--------------------------------------|
| ETIM 8 | EC002715 Capacitive proximity switch |
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More

| | |
|-----------------------|----------------------------------|
| IPF Product Group | 243 capacitive sensors (diverse) |
| packaging dimensions | 120 x 100 x 20 mm |
| gross weight | 32 g |
| Customs tariff number | 85365019 |
| WEEE number | 40951076 |
| Reach-compliant | Yes |
| RoHS-compliant | Yes |

Connection



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.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.