

UT180022

ULTRASONIC SENSORS • DISTANCE MEASUREMENT

sensor ultrasonic, diffuse-reflection sensor, M18x1 104long, Sn: 200-2000, 15-30V DC, 4-20mA, Connector M12 5pin, IP67, Plastic, Teach-In, With LED display, ultrasonic cone 8° Axial



MECHANICAL FEATURES

| | |
|---------------------------|------------------------|
| Ambient temperature | -20 °C ... 70 °C |
| Degree of protection (IP) | IP67 |
| Design | Cylinder, screw-thread |
| Diameter detection | + |
| Housing material | Plastic |
| Housing material, detail | PBT |
| Sensor length | 104 mm |
| Thread length | 65 mm |
| Thread pitch | 1 mm |
| Thread size, metric | 18 |

ELECTRICAL FEATURES

| | |
|-----------------------------------|--------------------|
| Adjustable measuring range | + |
| Carrier frequency | 180 kHz |
| Distance measuring sensors | + |
| Filling level measurement | + |
| Measuring range length | 200 mm ... 2000 mm |
| No-load current | 30 mA |
| Number of pins | 5 |
| Relative repeat accuracy | 0.4 % |
| Response time | 200 ms |
| Reverse polarity protection | + |
| Setting procedure | Teach-In |
| Setting via teach-in | + |
| Short-circuit protection | + |
| Sound cone (angle of beam spread) | 8 ° |
| Sound outlet | Axial |
| Supply voltage | 15 V ... 30 V |
| Synchronization possible | - |
| Type of analog output | 4 mA ... 20 mA |
| Type of electrical connection | Connector M12 |
| Voltage type | DC |
| With LED display | + |

ELECTRICAL FEATURES

| | |
|------------------------------------|---|
| With LED display (alignment aid) | + |
| With LED display (measuring range) | + |

OPTICAL FEATURES

| | |
|------------|------|
| Resolution | 1 mm |
|------------|------|

OTHER FEATURES

| | |
|------------------------------|-------|
| Level detection | + |
| Loop control | + |
| Relative linearity deviation | 0.5 % |

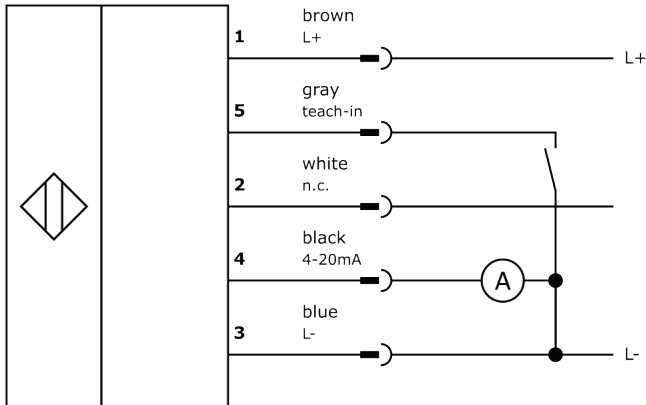
Other

| | |
|----------------------|---------------------------|
| Packaging dimensions | 77.0mm x 25.0mm x 123.0mm |
| Shipping weight | 0.06kg |
| Tariff code | 85365019 |

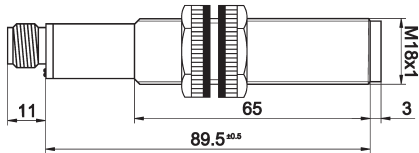
Classification

| | |
|-------------------|----------|
| ipf product group | 259 |
| eClass 8.0 | 27270804 |
| eClass 9.0 | 27270804 |
| eClass 9.1 | 27270804 |
| ETIM-5.0 | EC001846 |
| ETIM-6.0 | EC001846 |
| ETIM-7.0 | EC001846 |

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.