

## UT189520

### ULTRASONIC SENSORS • DIFFUSE REFLECTION SENSORS

sensor ultrasonic, diffuse-reflection sensor, M18x1 56long, Sn: 80-800, 18-30V DC, 1x PNP/NPN Programmable/configurable, IO-Link, Connector M12 4pin, IP67, Brass Nickel-plated, Teach-In, With LED display, ultrasonic cone Axial



#### MECHANICAL FEATURES

Ambient temperature	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Design	Cylinder, screw-thread
Diameter detection	+
Furcate	-
Housing coating	Nickel-plated
Housing material	Brass
Housing material, detail	Brass
Mounting distance	550 mm
Sensor length	55.5 mm
Thread length	30.5 mm
Thread pitch	1 mm
Thread size, metric	18

#### ELECTRICAL FEATURES

Absolute repeat accuracy	1 mm
Adjustable distance	80 mm ... 800 mm
Adjustable measuring range	+
Carrier frequency	400 kHz
Filling level measurement	-
IO-Link compatible	+
No-load current	40 mA
Norm measuring plate	100x100
Number of pins	4
Number of switching outputs	1
Operating voltage	18 V ... 30 V
Protection class	III
Rated switching current	150 mA
Readiness delay	300 ms
Response/decay time	10 ms
Reverse polarity protection	+
Sensing range	80 mm ... 800 mm
Setting procedure	Teach-In

**ELECTRICAL FEATURES**

Setting via teach-in	+
Short-circuit protection	+
Sound cone with small angle of beam spread	+
Sound outlet	Axial
Switching frequency	5 Hz
Switching output with window function	-
Synchronization input	-
Synchronization possible	-
Temperature drift	1 %
Type of electrical connection	Connector M12
Type of switching function	Programmable/configurable
Type of switching output	PNP/NPN
Voltage drop	2 V
Voltage type	DC
With LED display	+

**OPTICAL FEATURES**

Resolution	1 mm
High resolution	-

**OTHER FEATURES**

Dead zone	80 mm
Level detection	+
Loop control	-
Object detection on conveyor systems	+
With protective coating	-

**Other**

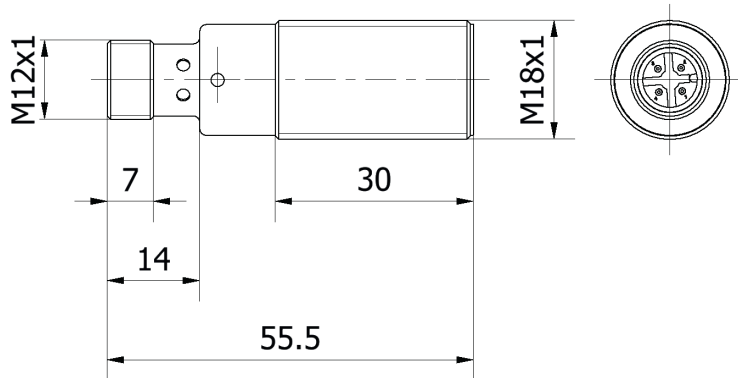
Packaging dimensions	155.0mm x 20mm x 175.0mm
Shipping weight	0.06kg
Tariff code	85365019

**Classification**

ipf product group	250
eClass 8.0	27272803
eClass 9.0	27272803
eClass 9.1	27272803
ETIM-5.0	EC001849
ETIM-6.0	EC001849
ETIM-7.0	EC001849

**Connection**

## Dimensional drawing



### Installation



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

### Disposal



### Software

Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: [www.ipf-electronic.com](http://www.ipf-electronic.com)

### 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.