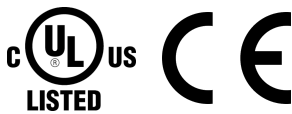


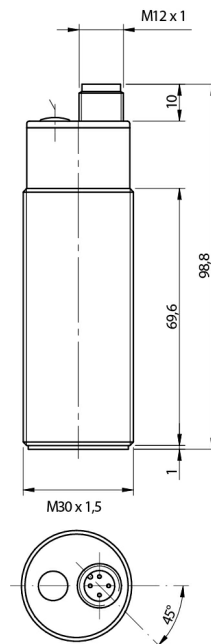


Indicative image



M30 CYLINDRICAL DIRECT DIFFUSE & RETRO-REFLECTIVE ULTRASONIC SENSOR WITH TEACH-IN BUTTON

- M30 ultrasonic sensor with standard housing and with large front with high performances and high sensing distances
- Adjustable hysteresis function: models with double digital programmable output specific for level detection
- Models with voltage or current output: programmable slope to optimize resolution
- Adjustable working area (window mode or object mode) by Teach-in button on all models for a quick and easy installation
- Two multifunction LEDs: orange LED for adjustment procedure and output type and green LED for target alignment
- Plastic and AISI 316L stainless steel housing, plug M12 or cable exit 4 pin



Detection properties

Nominal sensing distance	3500mm
Thermal drift of Sr	± 8%
Repeat Accuracy	1%
Beam angle	± 7°
Resolution	4mm
Sensitivity adjustment	Teach-in button
Hysteresis	1%

thermal compensation	Yes
Minimum sensing distance (blind zone)	250mm
Linearity error	1%

Application

Function Principle	Diffuse reflection
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Outputs

Output type	NPN
Output Function	NO/NC
Switching frequency	2Hz
Response time	250ms

Electrical data

Operating Voltage	12 - 30Vdc
No-Load supply current	≤50mA
Load current	100mA
Leakage current	10μA @ 30Vcc
Output voltage drop	2,2Vmax. @ IL=100 mA
Max ripple content	5%
LED indicators	Green LED: echo active - Yellow LED: output active
Time delay before availability	≤ 500ms(digital)
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	M30 x 1,5 / L = 98mm
Weight	140g
Housing Material	PBT
Connections	M12 Plug
Active Head Material	Epoxy-glass resin
Tightening torque	1,5nM
Operating temperature	- 20°C...+ 70°C
Storage temperature	- 35°C...+ 70° C (without freeze)
Transducer Frequency	112KHz
Diameter/Dimension	M30

Test/Approvals

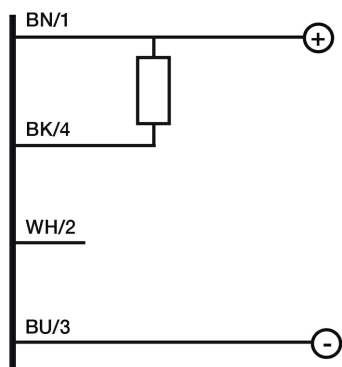
Approvals	CE cULus
EMC compatibility	IEC 60947-5-2

Accessories

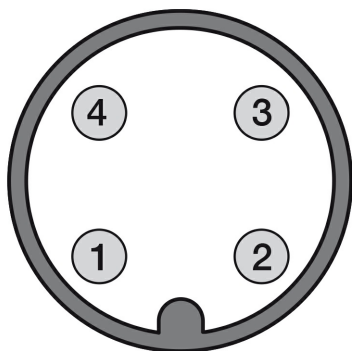
Supplied Accessories

2 x M30x1,5 nuts, 2 flexible washers Ø 30

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

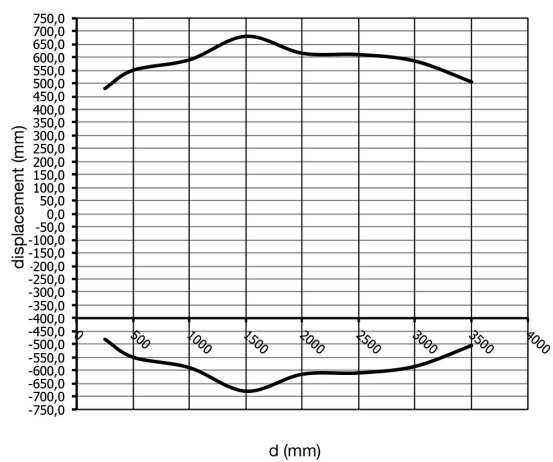


CONNECTOR



RESPONSE CURVES

Parallel offset



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