

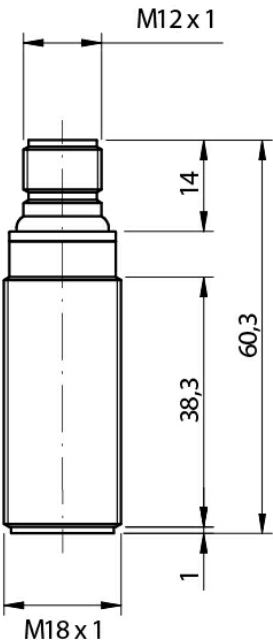


Indicative image



M18 CYLINDRICAL SHORT BODY DIRECT DIFFUSE & RETRO-REFLECTIVE ULTRASONIC SENSOR UK6 WITH TEACH-IN BUTTON

- M18 diffuse sensors with short housing
- Digital output
- Analogue output



Detection properties

Nominal sensing distance	800mm
Thermal drift of Sr	≤2%
Repeat Accuracy	0,50%
Beam angle	8° ± 2°
Resolution	≤3mm
Sensitivity adjustment	Teach-in button
Hysteresis	1%
thermal compensation	Yes
Minimum sensing distance(blind zone)	60mm
Linearity error	1%

Application

Function Principle	Diffuse reflection
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Outputs

Output type	0...10V
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Output Function	Rampa positiva/negativa
Switching frequency	5Hz
Response time	500ms

Electrical data

Operating Voltage	10 – 30Vdc
No-Load supply current	≤35mA @Val = 30V
Load current	100mA
Leakage current	10µA @ 30Vcc
Output voltage drop	2,2Vmax. @ IL=100 mA
Max ripple content	5%
LED indicators	green: echo – yellow: output
Time delay before availability	≤300ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Minimum load resistance	3kΩ

Mechanical data

Dimensions	M18 x 1 / L = 60,3mm
Weight	80g
Housing Material	stainless steel AISI 316L
Connections	M12 Plug
Tightening torque	50Nm
Operating temperature	- 20°C...+ 70°C
Storage temperature	- 35°C...+ 80° C without freeze
Transducer Frequency	230kHz
Diameter/Dimension	M18

Test/Approvals

Approvals	CE cULus
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	IEC EN60947-5-2 / 7.4
Degree of protection	IP67

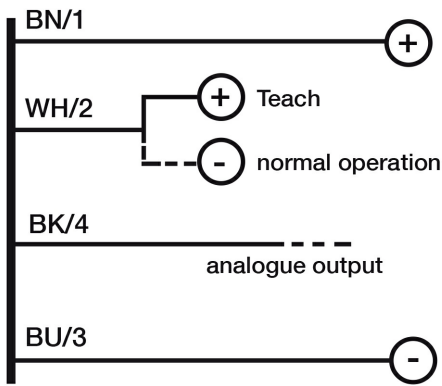
Accessories

Supplied Accessories	2 nuts M18x1, 2 washers Ø 18
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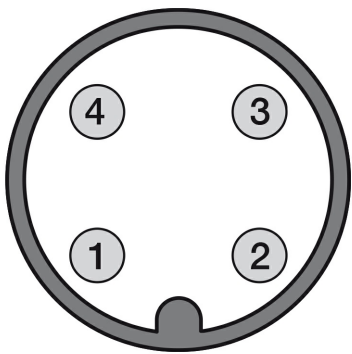
Generical Data

Dimensions	M18 x 1 / L = 60,3mm
Operating Temperature	- 20°C...+ 70°C

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

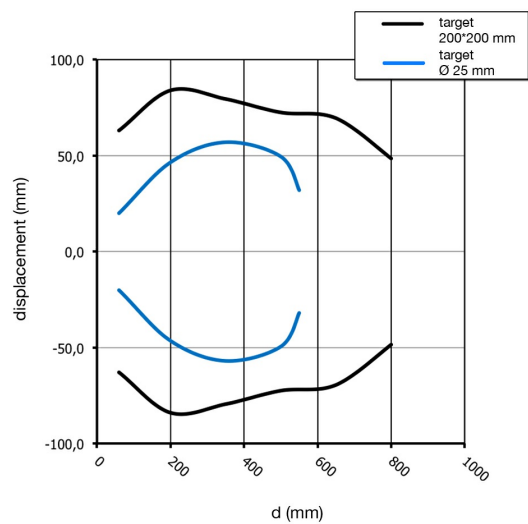


CONNECTOR



RESPONSE CURVES

Parallel offset



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date of printing

29/04/2022 09:38:32