

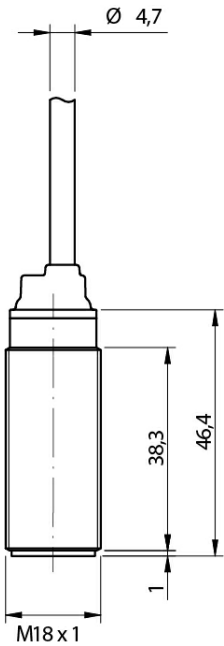


Indicative image



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	300mm
Thermal drift of Sr	≤2%
Repeat Accuracy	0,50%
Beam angle	7° ± 2°
Resolution	≤2mm
Sensitivity adjustment	Teach-in button
Hysteresis	1%
thermal compensation	Yes
Minimum sensing distance (blind zone)	40mm
Linearity error	1%

Application

Function Principle	Diffuse reflection
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Outputs

Output type	PNP
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Output Function	NO/NC
Switching frequency	8Hz
Response time	400ms

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

Mechanical data

Dimensions	M18 x 1 / L = 46,4mm
Weight	140g
Housing Material	stainless steel AISI 316L
Connections	2m PVC Cable
Tightening torque	50Nm
Operating temperature	- 20°C...+ 70°C
Storage temperature	- 35°C...+ 80° C without freeze
Transducer Frequency	300kHz
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

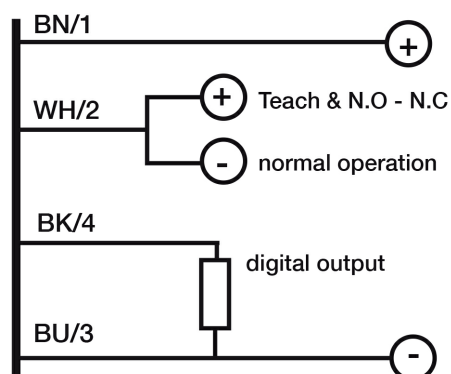
Accessories

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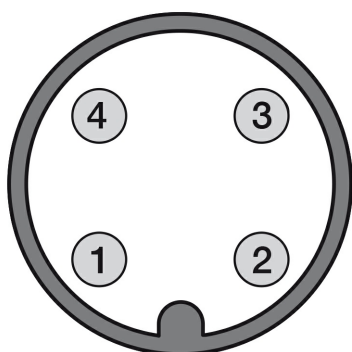
Generical Data

Dimensions	M18 x 1 / L = 46,4mm
Operating Temperature	- 20°C...+ 70°C
Mechanical Protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



RESPONSE CURVES

Parallel offset

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