



UK6

UK6A/HP-1EUL

Ultra.M18,PNP-NO/NC,M12 plug,Diffuse
M18 CYLINDRICAL SHORT BODY DIRECT DIFFUSE &
RETRO-REFLECTIVE ULTRASONIC SENSOR UK6 WITH
TEACH-IN BUTTON

OVERVIEW

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



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	300mm
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Thermal drift of Sr	$\leq 2\%$
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Repeat Accuracy	0,50%
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Beam angle	$7^{\circ} \pm 2^{\circ}$
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Resolution	$\leq 2\text{mm}$
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Sensitivity adjustment	Teach-in button
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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
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 = 60,3mm
Housing material	stainless steel AISI 316L
Weight	80g
Connections	M12 Plug
Tightening torque	50Nm
Operating temperature	- 20°C...+ 70°C
Storage temperature	- 35°C...+ 80° C without freeze
Transducer Frequency	300kHz
Diameter/Dimension	M18

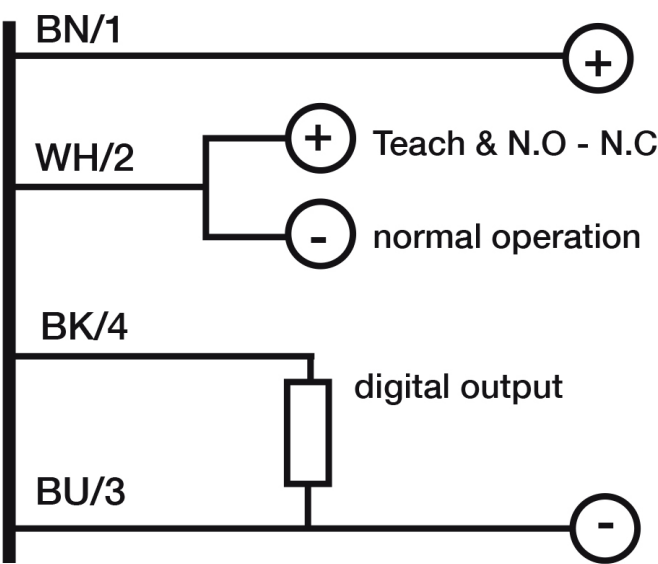
Test/Approvals

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
Generical Data	
Dimensions	M18 x 1 / L = 60,3mm
Operating Temperature	- 20°C...+ 70°C
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

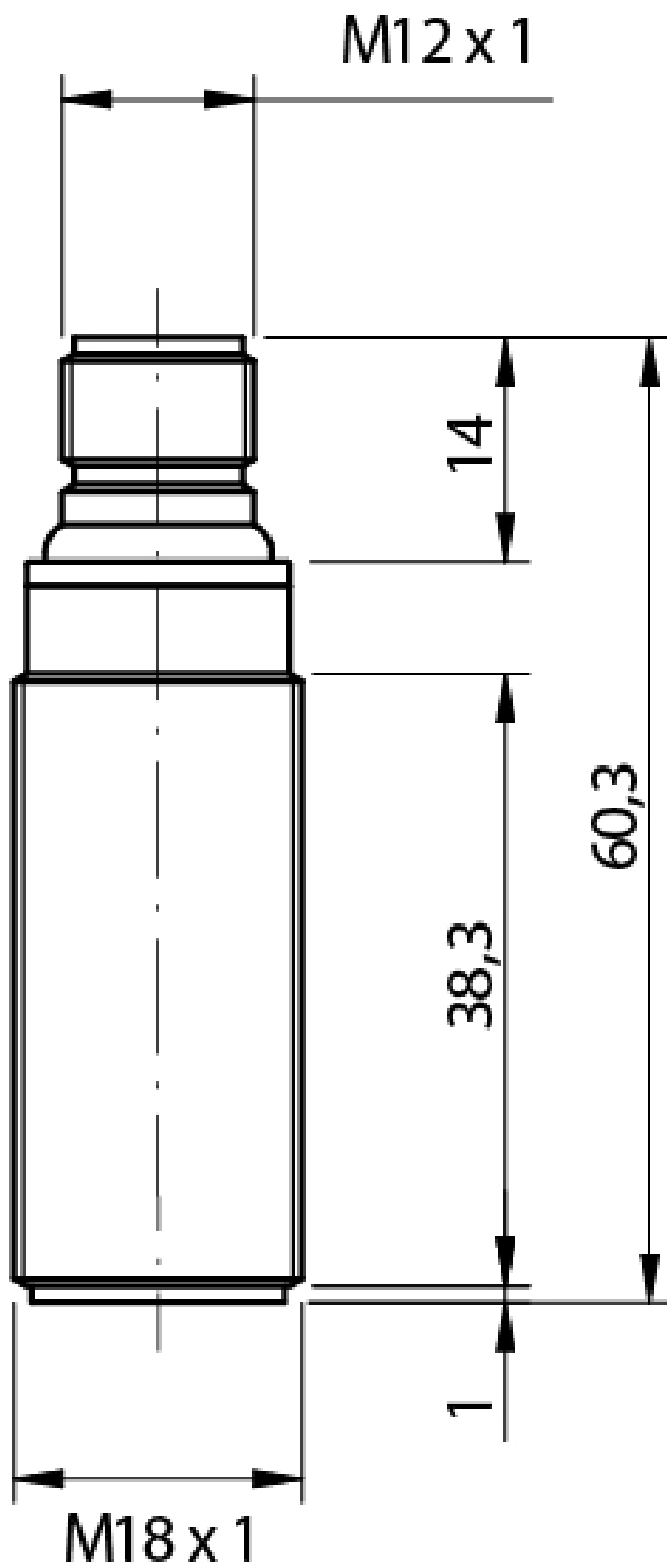


Connector



OTHERS

Dimensions



Response curves

Image:

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