

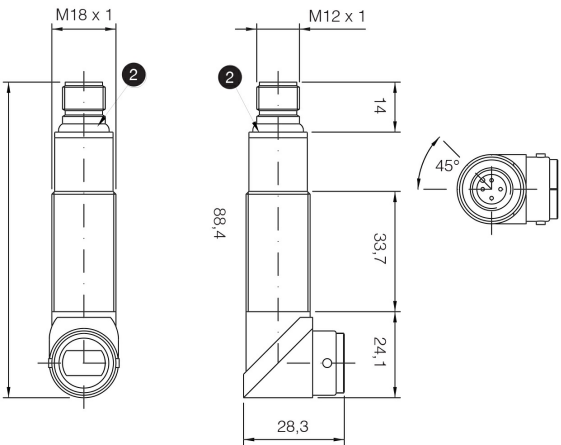


Indicative image



**M18 CYLINDRICAL DIRECT DIFFUSE & RETRO-REFLECTIVE
ULTRASONIC SENSOR UK1 WITH TEACH-IN BUTTON**

- Models with digital programmable output
- Models with current or voltage analogue outputs
- Adjustable Hysteresis function: model with programmable double digital outputs, specific for levels
- Working area adjusting (window teach or single point teach) by Teach-in button suitable for all models for a fast coming into work
- Multifunction LED indicator: output type, adjustment procedure, NO/NC selection and reverse analog output slope



1 Teach-in

2 LED

Detection properties

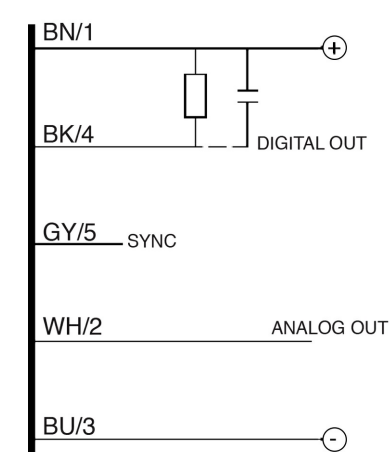
Nominal sensing distance	2200mm
Thermal drift of Sr	±2%
Repeat Accuracy	0,50%
Beam angle	14° ± 2°
Resolution	≤3mm
Sensitivity adjustment	Teach-in button
Hysteresis	1%
thermal compensation	Yes
Minimum sensing distance (blind zone)	200mm
Linearity error	1%

Minimum distance from background	300mm
Application	
Function Principle	Diffuse reflection
Outputs	
Output type	NPN + 0...10V
Output Function	NO/NC + positive/negative slope
Switching frequency	2Hz
Response time	500ms
Electrical data	
Operating Voltage	10 – 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: 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 = 88,3mm
Weight	75g
Housing Material	PBT housing
Connections	M12 Plug
Tightening torque	1Nm
Operating temperature	- 20°C...+ 70°C
Storage temperature	- 35°C...+ 80° C without freeze
Transducer Frequency	200kHz
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

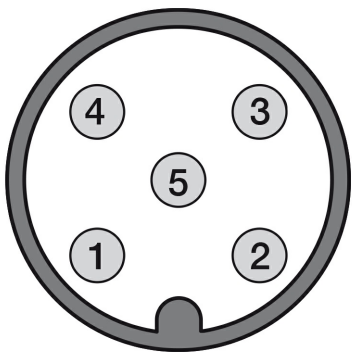
Accessories

Supplied Accessories	2 nuts M18x1, 2 washers Ø 18
Generical Data	
Dimensions	M18 x 1 / L = 88,3mm
Operating Temperature	- 20°C...+ 70°C
Mechanical Protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

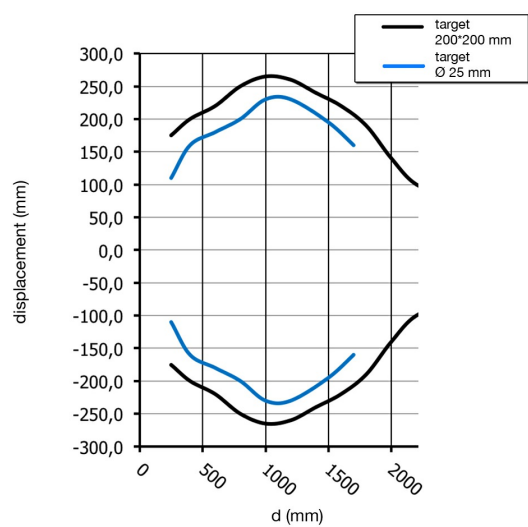


CONNECTOR



RESPONSE CURVES

Parallel offset



Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail info@datasensing.com

date of printing

29/04/2022 10:35:52