

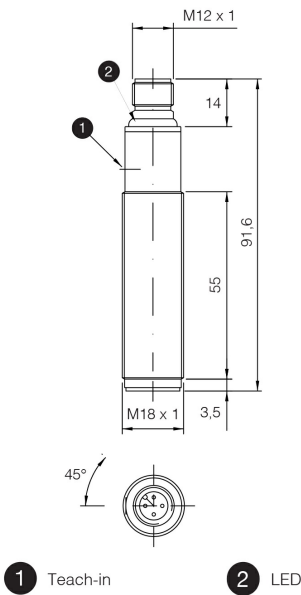


Indicative image



**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



Detection properties

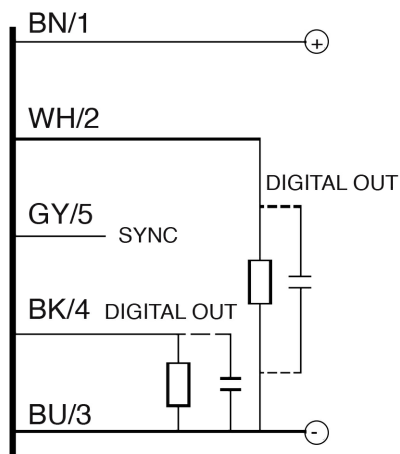
Nominal sensing distance	2200mm
Thermal drift of Sr	±2%
Repeat Accuracy	0,50%
Beam angle	14° ± 2°
Resolution	≤3mm
Sensitivity adjustment	Teach-in button
Hysteresis	1%
thermal compensation	Yes
Minimum sensing distance (blind zone)	200mm
Linearity error	1%

Minimum distance from background	300mm
Application	
Function Principle	Retroreflective
Outputs	
Output type	2x PNP
Output Function	NO + NC
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
Mechanical data	
Dimensions	M18 x 1 / L = 91,6mm
Weight	70g
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	

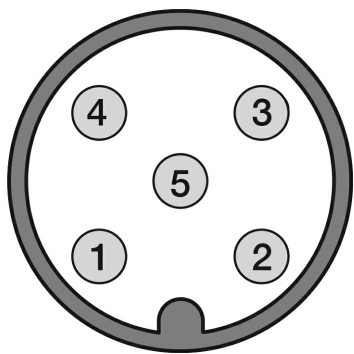
Generical Data

Dimensions	M18 x 1 / L = 91,6mm
Operating Temperature	- 20°C...+ 70°C
Mechanical Protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

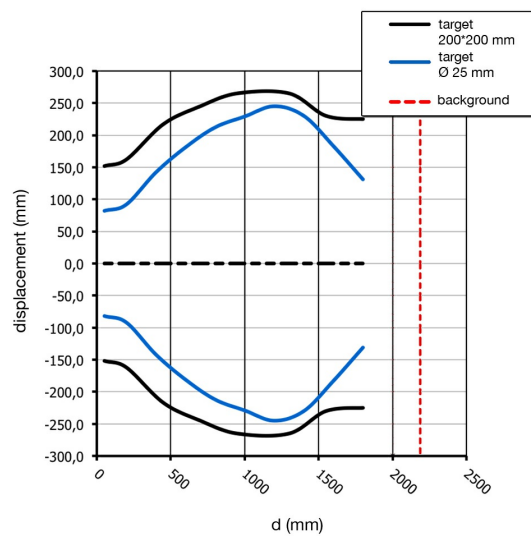


CONNECTOR



RESPONSE CURVES

Parallel offset



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