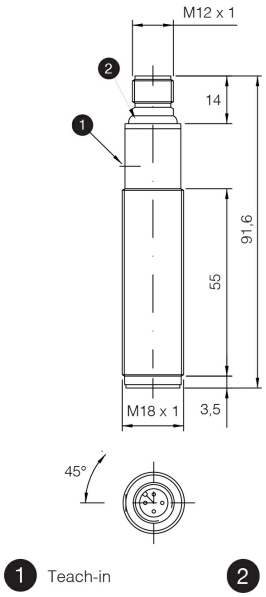
UK1A/G1-0ESY

cylindrical ultrasonic

Micro Detectors

Italian Sensors Technology

Indicative image



1 Teach-in 2 LED

Detection properties

Nominal sensing distance	400mm
Thermal drift of Sr	±2%
Repeat Accuracy	0,50%
Beam angle	10° ± 2°
Resolution	≤3mm
Sensitivity adjustment	Teach-in button
Hysteresis	1%
thermal compensation	Yes
Minimum sensing distance (blind zone)	50mm
Linearity error	1%

Application

Function Principle	Diffuse reflection

Outputs

Output type	0...10V
Output Function	Rampa positiva/negativa
Switching frequency	10Hz

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 resistence	3kΩ

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	300kHz
Diameter/Dimension	M18

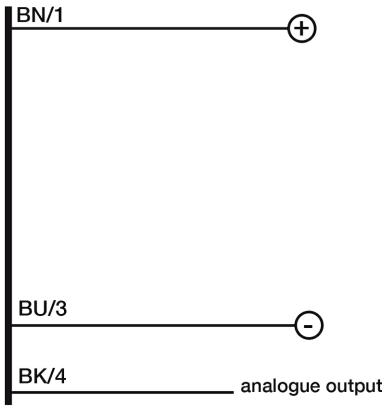
Test/Approvals

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

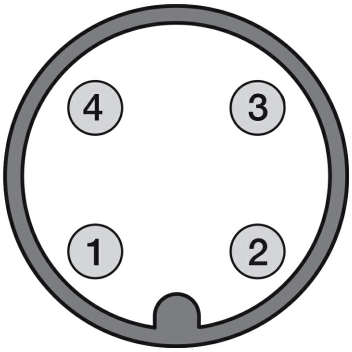
Accessories

Supplied Accessories	2 nuts M18x1, 2 washers Ø 18

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

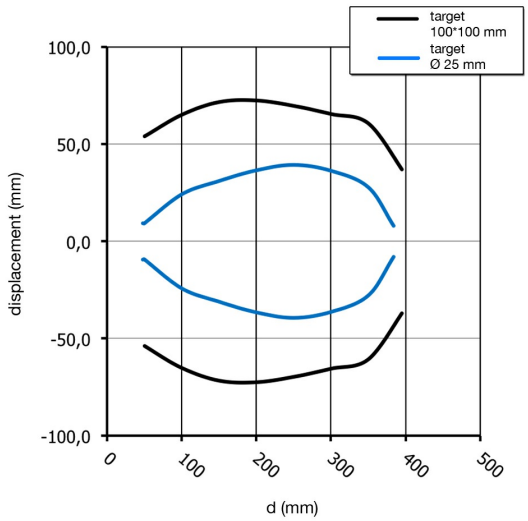


CONNECTOR



RESPONSE CURVES

Disassamento Parallelo



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date of printing
03/04/2020 03:51:30