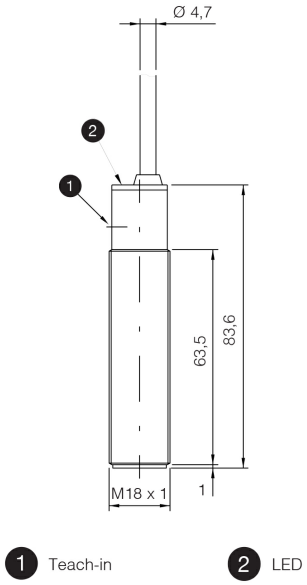
UK1A/G4-0ASY

cylindrical ultrasonic

Micro Detectors
Italian Sensors Technology

Indicative image



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	NPN + 4...20mA
Output Function	NO/NC + positive/negative slope
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

Mechanical data

Dimensions	M18 x 1 / L = 83,6mm
Weight	110g
Housing Material	PBT housing
Connections	2m PVC Cable
Tightening torque	1Nm
Operating temperature	- 20°C...+ 70°C
Storage temperature	- 35°C...+ 80° C without freeze
Transducer Frequency	300kHz
Diameter/Dimension	M18

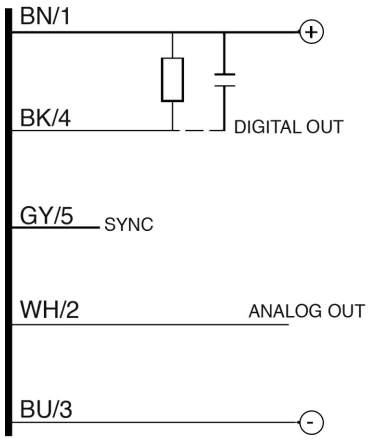
Test/Approvals

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

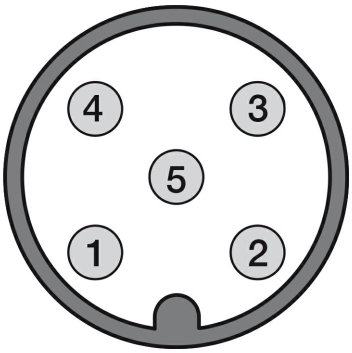
Accessories

Supplied Accessories	2 nuts M18x1, 2 washers Ø 18

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

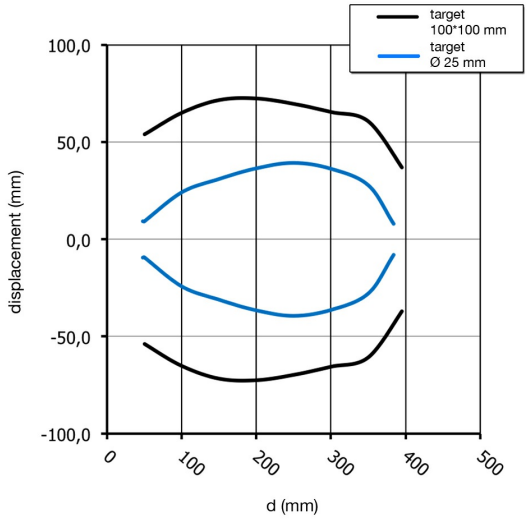


CONNECTOR



RESPONSE CURVES

Disassamento Parallelo



M.D.Micro Detectors S.p.A.
Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail info@microdetectors.com

date of printing
03/04/2020 03:57:11