AK1/CP-2C

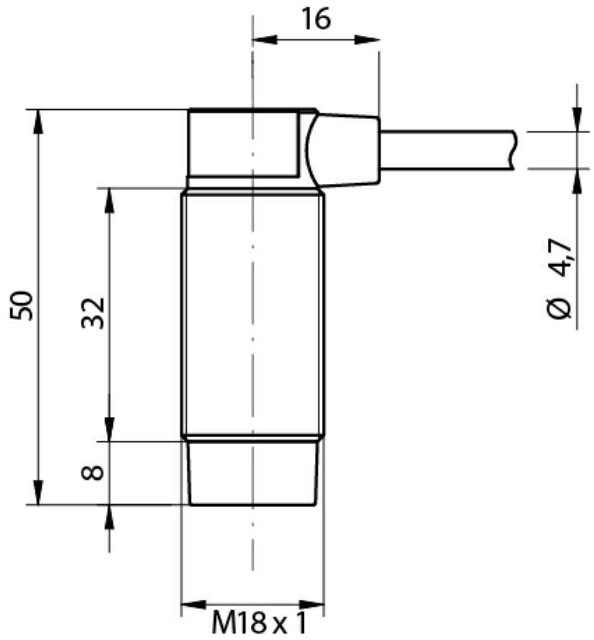
AK



Indicative image

M18 CYLINDRICAL INDUCTIVE SENSORS

- Wide range of models: standard, long distance
- Output: cable, M12 and plug cable exit
- Models with 2, 3, and 4 wires
- ATEX models, cat. 3, available on request
- Models with complementary output (NO+NC)



Detection properties

Nominal sensing distance	8mm
Operanting distance	0...6,5mm
Standard target	24x24mm FE360
Correction Factor	copper: 0,45 / aluminium: 0,53 / brass: 0,56 / stainless steel: 0,77
Thermal drift of Sr	< 10%
Repeat Accuracy	5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Outputs

Output type	PNP
Output Function	NC
Switching frequency	600Hz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 20mA

Load current	≤ 400mA
Leakage current	≤ 10µA
Output voltage drop	≤ 1V @400mA
Max ripple content	≤10%
LED indicators	Yellow LED output state
Time delay before availability	≤ 50ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Mounting	Unshielded
Dimensions	M18 x 1 / L = 50mm
Weight	130g
Housing Material	Nickel-plated brass
Connections	2m PVC Cable - 90° Output
Active Head Material	PBT
Tightening torque	25Nm
Operating temperature	-25°C...+70°C
Diameter/Dimension	M18

Test/Approvals

Approvals	CE UR
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

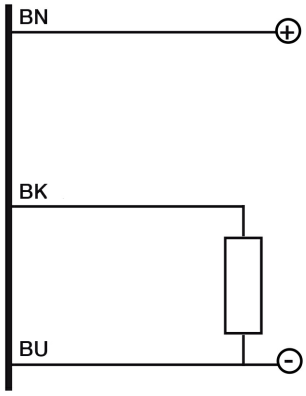
Accessories

Supplied Accessories	2 nuts M18x1

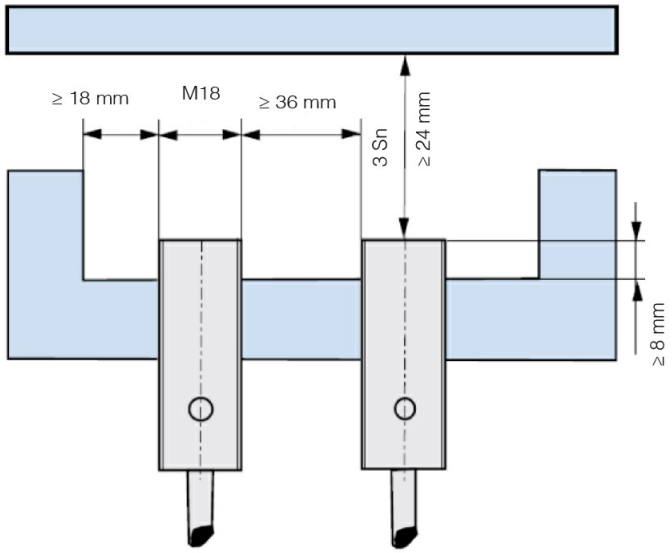
Generical Data

Dimensions	M18 x 1 / L = 50mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



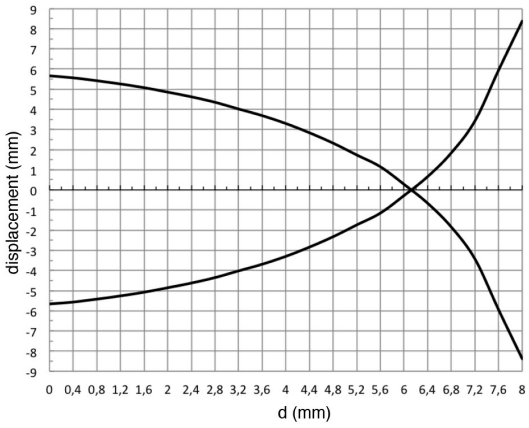
INSTALLATION



(1) ≥ 3,6 mm for non magnetic materials

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

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