

PM3

PM3/00-1H

Ind.M12,NPN/PNP-NO/NC,M12 plug,Sch-STD

M12 DECOUT® CYLINDRICAL INDUCTIVE SENSORS

OVERVIEW

- Wide range of models: standard, DECOUT® output
- Output: cable, M12 plug cable exit
- Models with 4 wires
- ATEX models, cat. 3, available on request

CE

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	2mm
Operanting distance	0…1,62mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,30 / aluminium: 0,35 / brass: 0,50 / stainless steel: 0,80
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)

Hysteresis	1 … 20%

Application

Description	M12 standard flush mount
Functions	Proximity

Outputs

Output type	NPN/PNP
Output Function	NO/NC
Switching frequency	1kHz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 30mA
Load current	≤ 100mA
Leakage current	≤ 10μA
Output voltage drop	≤ 1,2V @100mA
Max ripple content	≤ 10%
LED indicators	Yellow LED output state
Time delay before availability	≤100ms
Short-circuit protection	Yes

Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Dimensions	M12 x 1 / L = 73,3mm
Mounting	Shielded
Material	Nickel-plated brass
Housing material	Nickel-plated brass
Weight	29g
Connections	M12 Plug
Active Head Material	PBT
Tightening torque	10Nm
Operating temperature	-25°C…+70°C
Diameter/Dimension	M12

Test/Approvals

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

Accessories

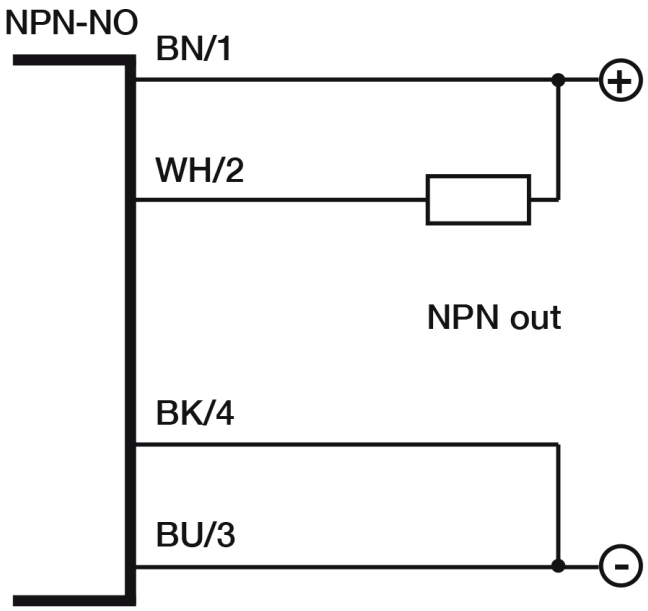
Supplied Accessories	2 nuts M12x1

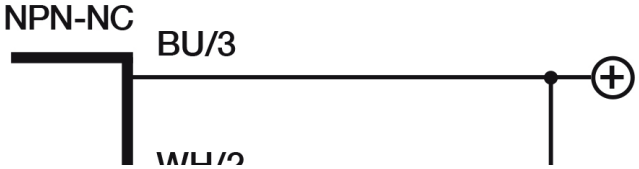
Generical Data

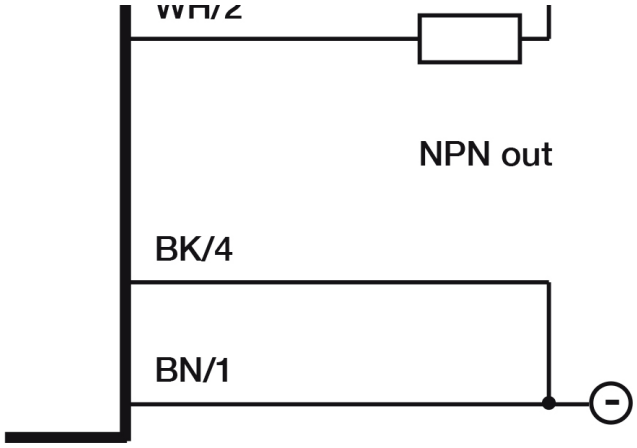
Dimensions	M12 x 1 / L = 73,3mm
Operating Temperature	-25°C…+70°C
Mechanical Protection	IP67

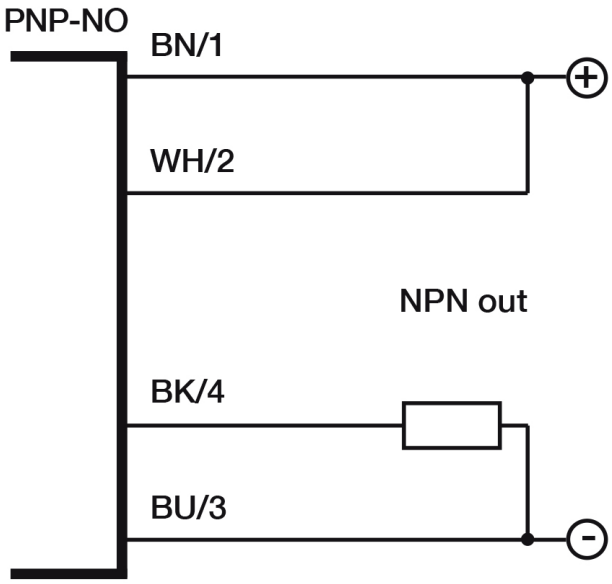
CONNECTIONS

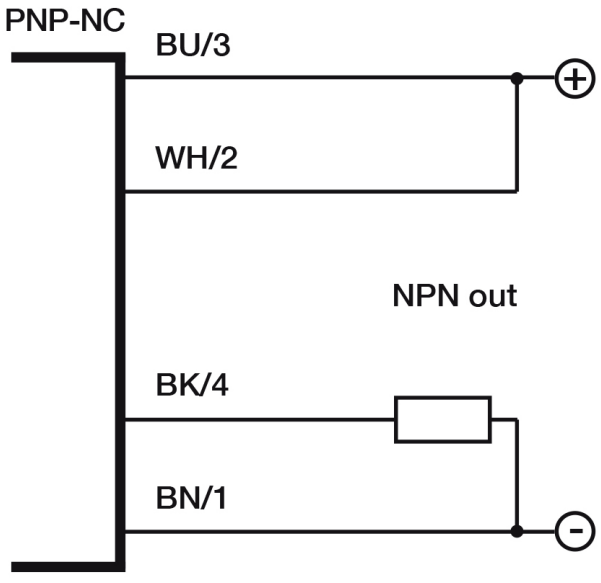
Eletrical diagram



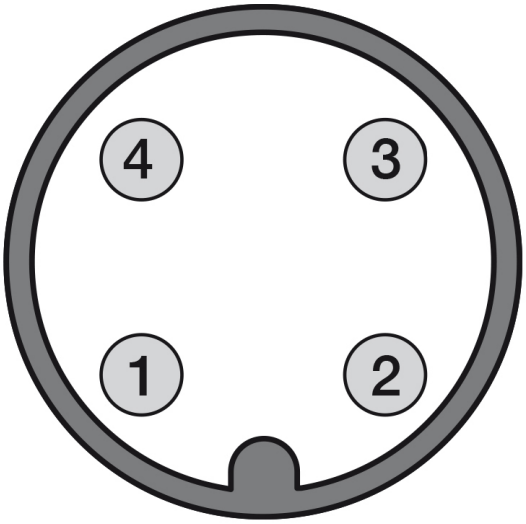



WH/2
NPN out
BK/4
BN/1


PNP-NO
BN/1
WH/2
NPN out
BK/4
BU/3

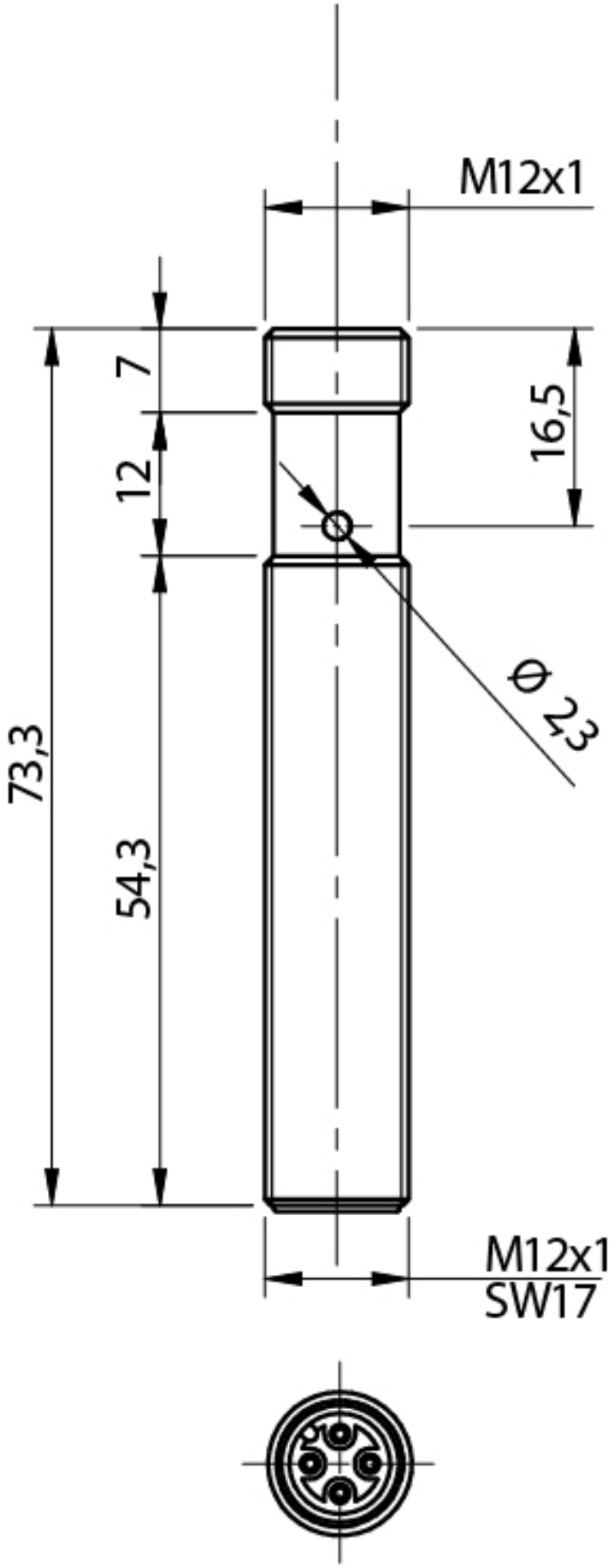

PNP-NC
BU/3
WH/2
NPN out
BK/4
BN/1

Connector

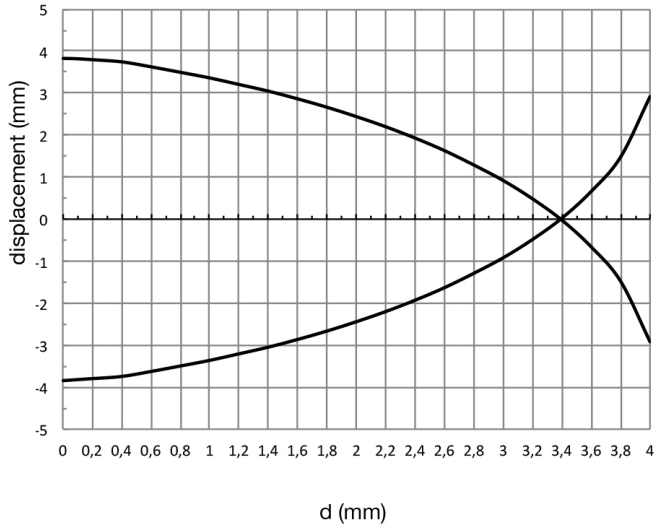


OTHERS

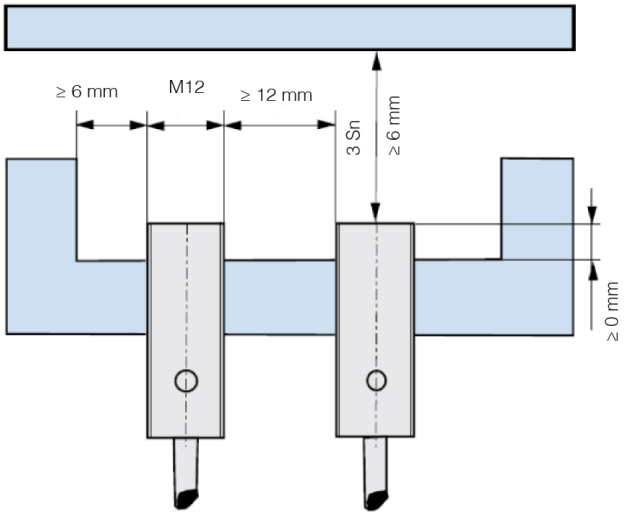
Dimensions



Response curves



Installation



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