



IL5

IL5/CP-1A

Ind.5x5,PNP-NC,Cable,Sch-STD
5 X 5 MM CUBIC MINIATURIZED INDUCTIVE SENSORS

OVERVIEW

- Complete range of cubic inductive sensors IL8 series: 5x5x25 mm
- IP67 protection degree



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0,8mm
Operanting distance	0...0,65mm
Standard target	5x5mm FE360
Correction Factor	copper: $0,37 \pm 10\%$ / aluminium: $0,27 \pm 10\%$ / brass: $0,40 \pm 10\%$ / stainless steel: $0,61 \pm 10\%$
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C $\pm 5^{\circ}\text{C}$)

Hysteresis	1 ... 20%
------------	-----------

Application

Description	5x5x25mm cubic flush mount
-------------	----------------------------

Functions	Proximity
-----------	-----------

Outputs

Output type	PNP
-------------	-----

Output Function	NC
-----------------	----

Switching frequency	≤ 7kHz
---------------------	--------

Electrical data

Operating Voltage	10...30Vdc
-------------------	------------

No-Load supply current	≤ 10mA
------------------------	--------

Load current	≤ 100mA
--------------	---------

Leakage current	≤ 10μA
-----------------	--------

Output voltage drop	≤ 1,5V @100mA
---------------------	---------------

Max ripple content	≤ 10%
--------------------	-------

LED indicators	Blue LED output state
----------------	-----------------------

Time delay before availability	≤ 50ms
--------------------------------	--------

Short-circuit protection	Yes
--------------------------	-----

Reverse Polarity Protection	Yes
-----------------------------	-----

Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Dimensions	5 x 5 / L = 25mm
Mounting	Shielded
Material	AISI303 Stainless Steel
Housing material	AISI303 Stainless Steel
Weight	35g
Connections	2m PUR Cable
Active Head Material	PBT
Operating temperature	-25°C...+70°C
Diameter/Dimension	5x5x25mm

Test/Approvals

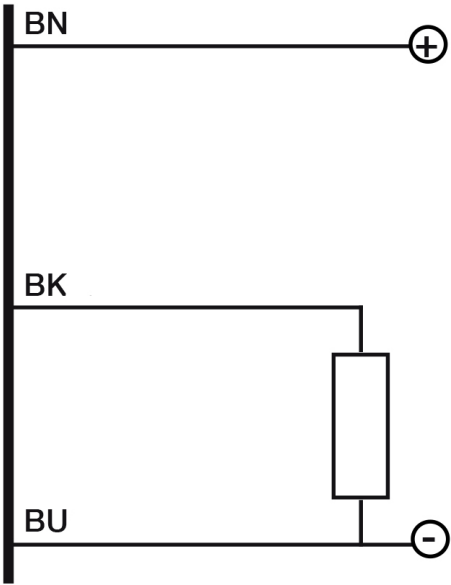
Approvals	CE cULus
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

Accessories

Supplied Accessories	2 screws 1.6x0.35 L10mm
Generical Data	
Dimensions	5 x 5 / L = 25mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

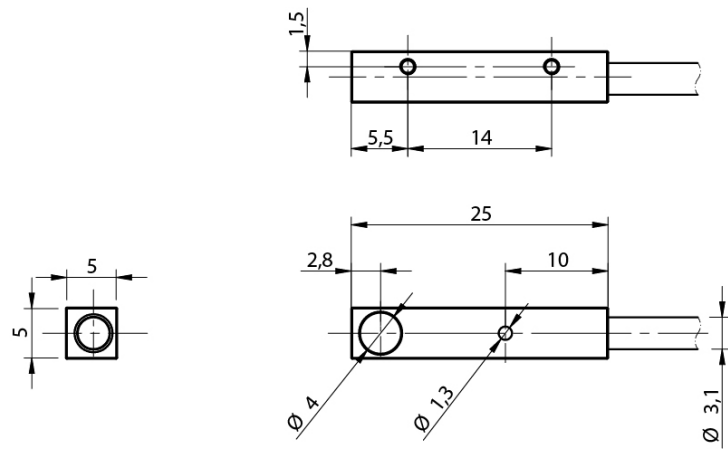
CONNECTIONS

Eletrical diagram

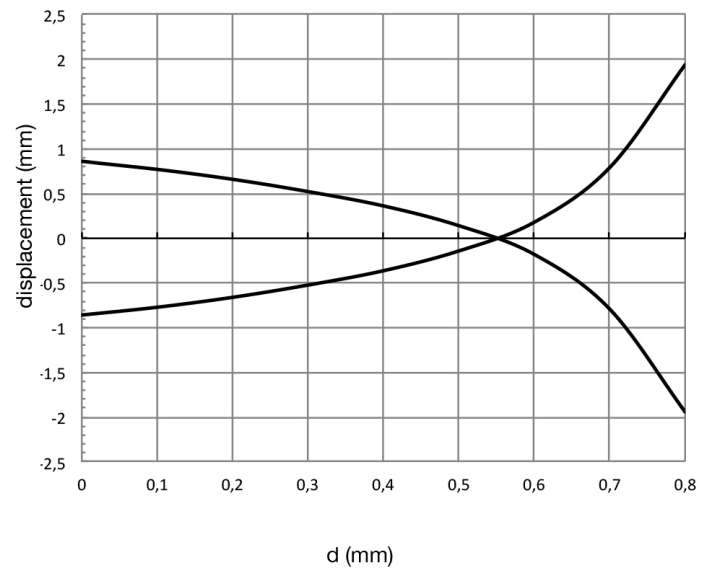


OTHERS

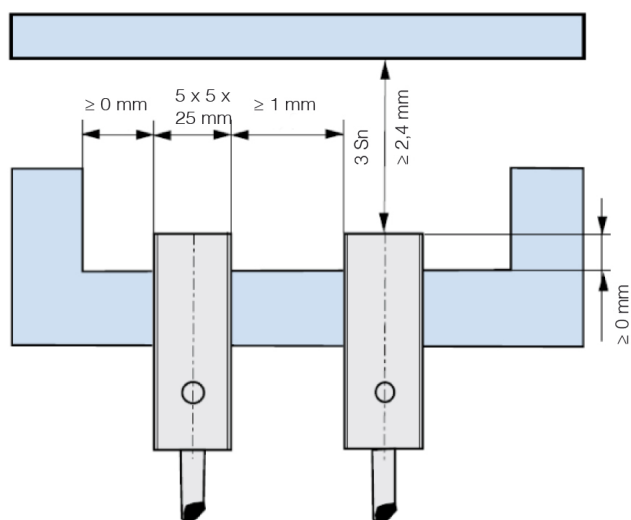
Dimensions



Response curves



Installation



Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

**date of
printing**
10/08/2026
00:05:42