



IL8/IL9

IL9/AN-1F

Ind.8x8,NPN-NO,M8 plug,Sch-STD
8 X 8 MM CUBIC MINIATURIZED INDUCTIVE SENSORS

OVERVIEW

- Complete range of cubic inductive sensors:
 1. IL8 series: 8x8 mm with sensing head at the top
 2. IL9 series: 8x8 mm with sensing head at the centre
- IP67 protection degree



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	1,5mm
Operating distance	0...1,21mm
Standard target	8x8mm FE360
Correction Factor	copper: 0,16 / aluminium: 0,11 / brass: 0,22 / stainless steel: 0,61
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)

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

Application

Description	8x8x59mm cubic flush mount
-------------	----------------------------

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

Outputs

Output type	NPN
-------------	-----

Output Function	NO
-----------------	----

Switching frequency	≤ 5kHz
---------------------	--------

Electrical data

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

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

Load current	≤ 200mA
--------------	---------

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

Output voltage drop	≤ 1,5V @200mA
---------------------	---------------

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	8 x 8 / L = 59mm / active head in the centre
Mounting	Shielded
Material	AISI303 Stainless Steel
Housing material	AISI303 Stainless Steel
Weight	15g
Connections	M8 Plug
Active Head Material	PBT
Operating temperature	-25°C...+70°C
Diameter/Dimension	8x8x59mm

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

Generical Data

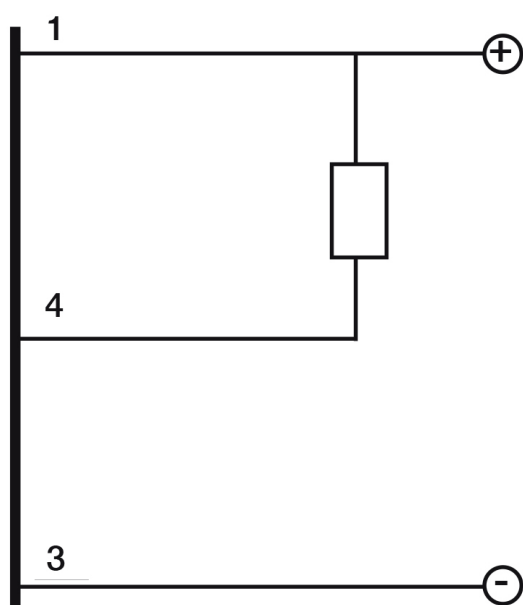
Dimensions	8 x 8 / L = 59mm / active head in the centre
------------	--

Operating Temperature	-25°C...+70°C
-----------------------	---------------

Mechanical Protection	IP67
-----------------------	------

CONNECTIONS

Electrical diagram

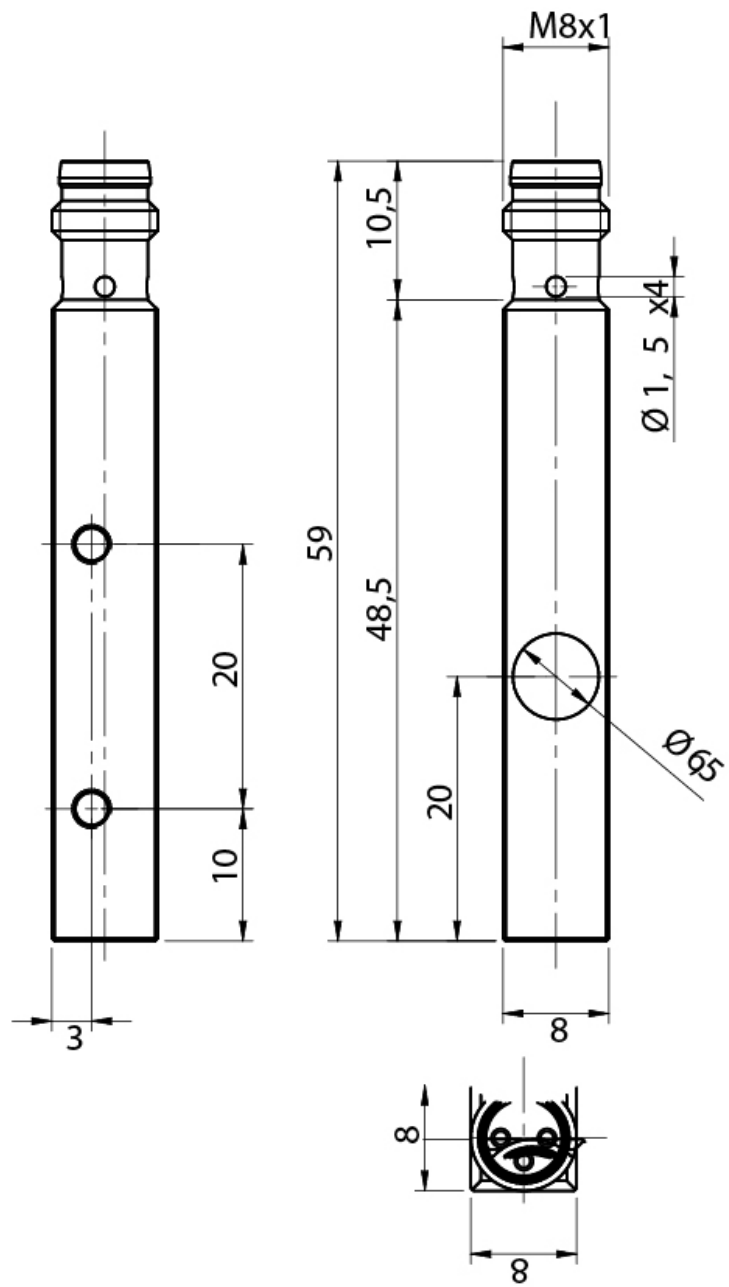


Connector

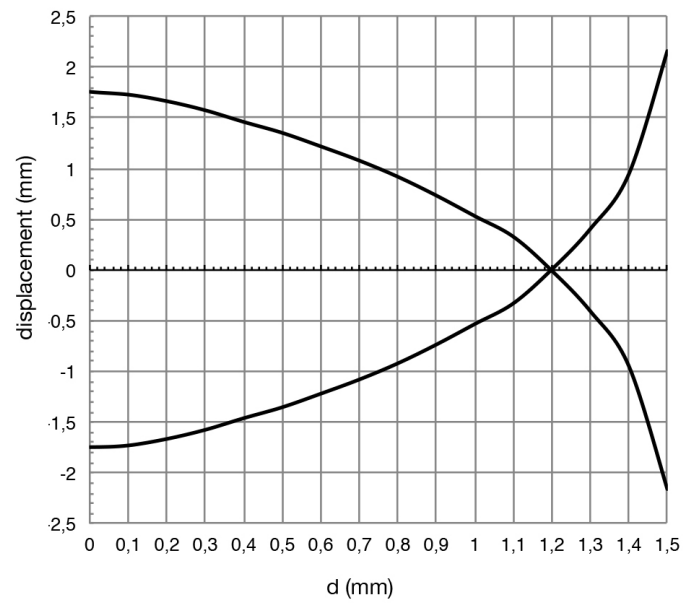


OTHERS

Dimensions



Response curves



**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
08:33:40