



C30

C30P/BN-2E

Cap.M30,NPN-NO+NC,M12 plug,Nsch-LD
M30 CYLINDRICAL CAPACITIVE SENSORS

OVERVIEW

- DC or AC supply voltage
- High noise immunity
- Shielded and unshielded models
- Adjustable sensitivity
- Metallic or plastic housing



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	4...25mm
--------------------------	----------

Thermal drift of Sr	< 20%
---------------------	-------

Repeat Accuracy	5%
-----------------	----

Sensitivity adjustment	Yes
------------------------	-----

Hysteresis	≤ 20%
------------	-------

Outputs

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

Output Function	NO + NC
-----------------	---------

Switching frequency	30Hz
---------------------	------

Electrical data

Operating Voltage	10...40Vdc
-------------------	------------

No-Load supply current	$\leq 12\text{mA}$
------------------------	--------------------

Load current	$\leq 200\text{mA}$
--------------	---------------------

Leakage current	$\leq 100\mu\text{A}$
-----------------	-----------------------

Output voltage drop	2,5Vmax @ IL=200mA
---------------------	--------------------

Max ripple content	$\leq 10\%$
--------------------	-------------

LED indicators	Yellow LED (object detected)
----------------	------------------------------

Time delay before availability	$\leq 200\text{ms}$
--------------------------------	---------------------

Short-circuit protection	Yes, autoreset
--------------------------	----------------

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

Impulsive Overvoltage Protection	Yes
----------------------------------	-----

Mechanical data

Dimensions	M30 / L = 91mm
------------	----------------

Mounting	Unshielded
----------	------------

Housing material	Polyester
Weight	100g
Connections	M12 plug
Active Head Material	Polyester
Tightening torque	50Nm
Operating temperature	-25°C...+80°C (without freeze)
Storage temperature	-40°C...+85°C
Diameter/Dimension	M30

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

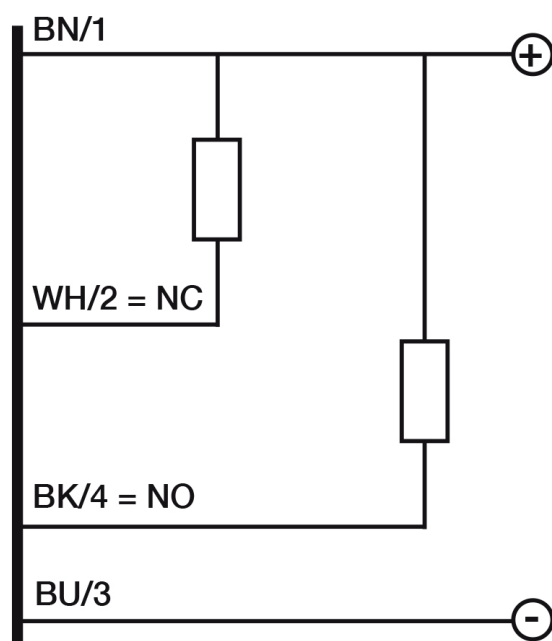
Supplied Accessories	screw driver, 2 x M30 nuts
----------------------	----------------------------

Generical Data

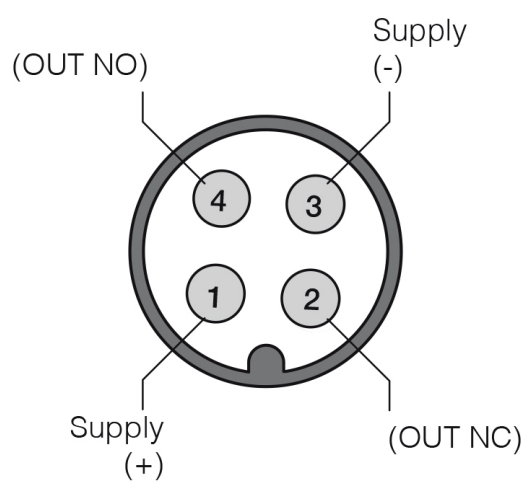
Dimensions	M30 / L = 91mm
Operating Temperature	-25°C...+80°C (without freeze)

CONNECTIONS

Electrical diagram

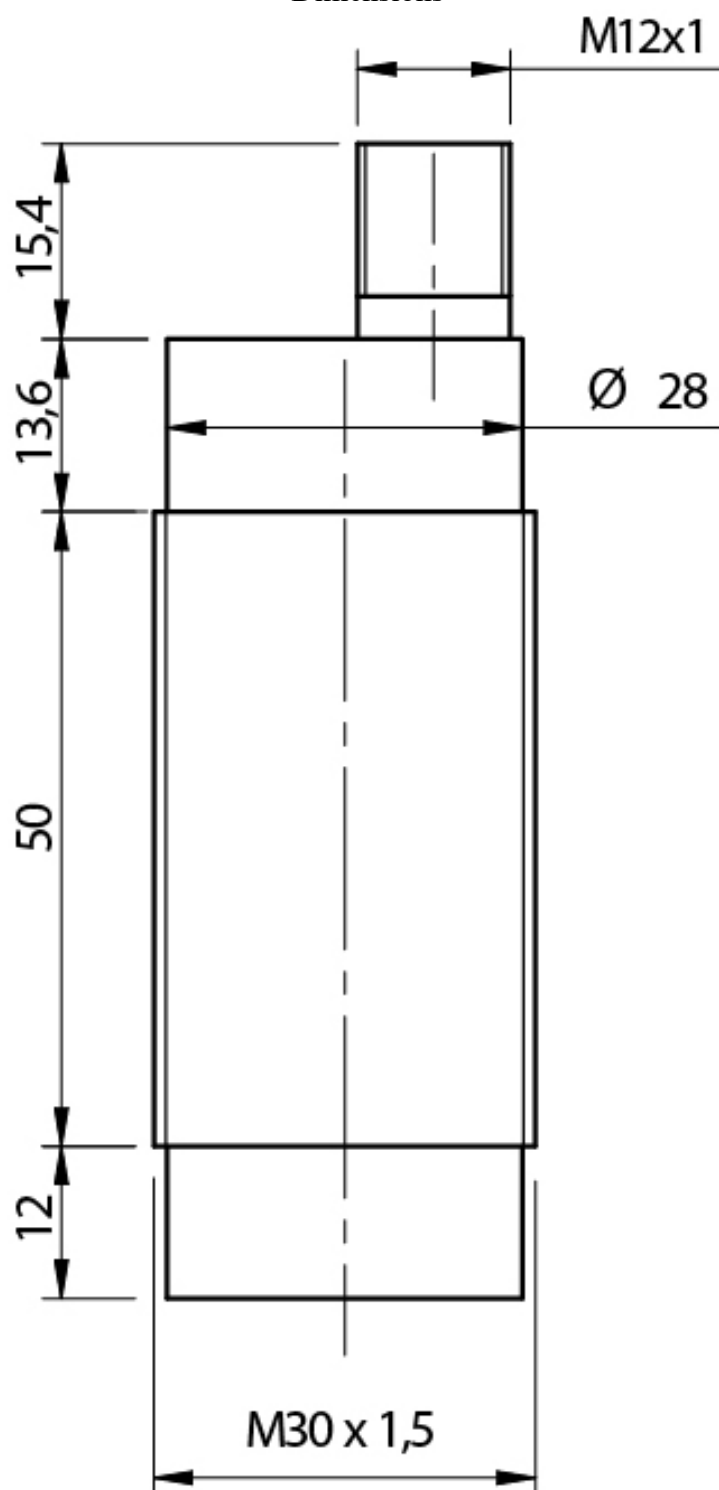


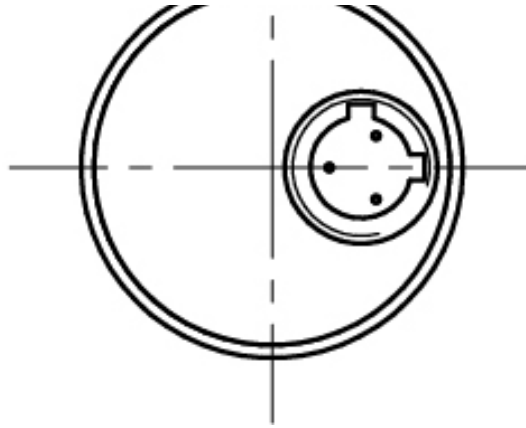
Connector



OTHERS

Dimensions





**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
02:15:09