



CT

CT1/CN-1H

Cap.M30,NPN-NC,M12 plug,Sch-STD
M30 CYLINDRICAL CAPACITIVE SENSORS

OVERVIEW

- Sensitivity adjustment with trimmer
- Metal housing
- IP65 protection degree
- Complete protection against electrical damages
- Axial cable exit or M12 plug cable exit



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	2...15mm
--------------------------	----------

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

Repeat Accuracy	10%
-----------------	-----

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

Hysteresis	≤ 20%
------------	-------

Outputs

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

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

Switching frequency	100Hz
---------------------	-------

Electrical data

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

No-Load supply current	$\leq 8\text{mA}$
------------------------	-------------------

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

Leakage current	$\leq 10\text{mA}$
-----------------	--------------------

Output voltage drop	0,75/1,8V max @ IL=10/200 mA
---------------------	------------------------------

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

LED indicators	Green LED power, red LED (object detected)
----------------	--

Time delay before availability	$\leq 100\text{ms}$
--------------------------------	---------------------

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

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

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

Mechanical data

Dimensions	M30 / L = 87mm
------------	----------------

Mounting	Shielded
----------	----------

Housing material	Nickel-plated brass
Weight	185g
Connections	M12 plug
Active Head Material	PBT
Tightening torque	50Nm
Operating temperature	-25°C...+70°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	IP65

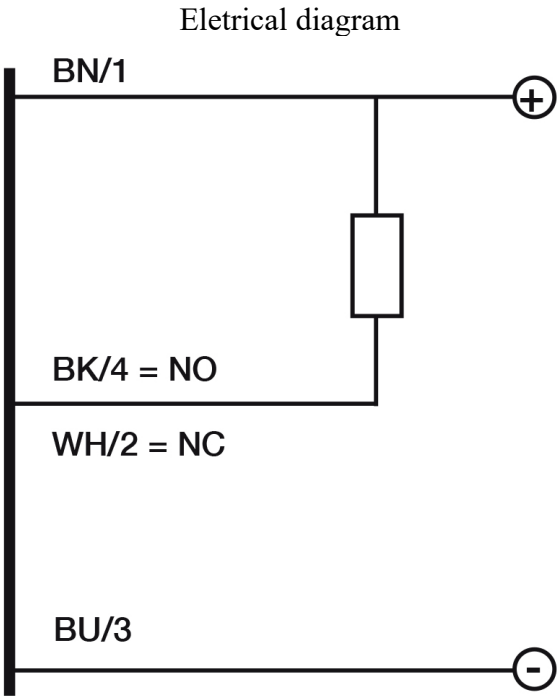
Accessories

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

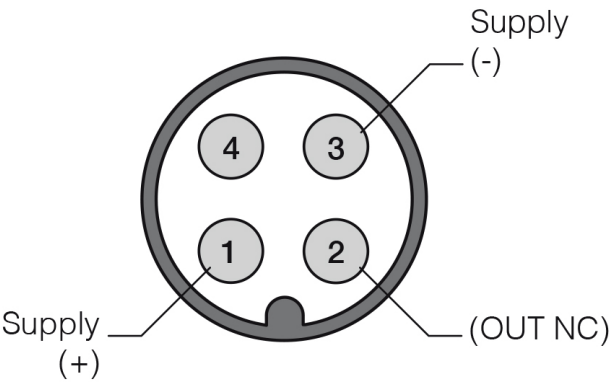
Generical Data

Dimensions	M30 / L = 87mm
Operating Temperature	-25°C...+70°C (without freeze)
Mechanical Protection	IP65

CONNECTIONS

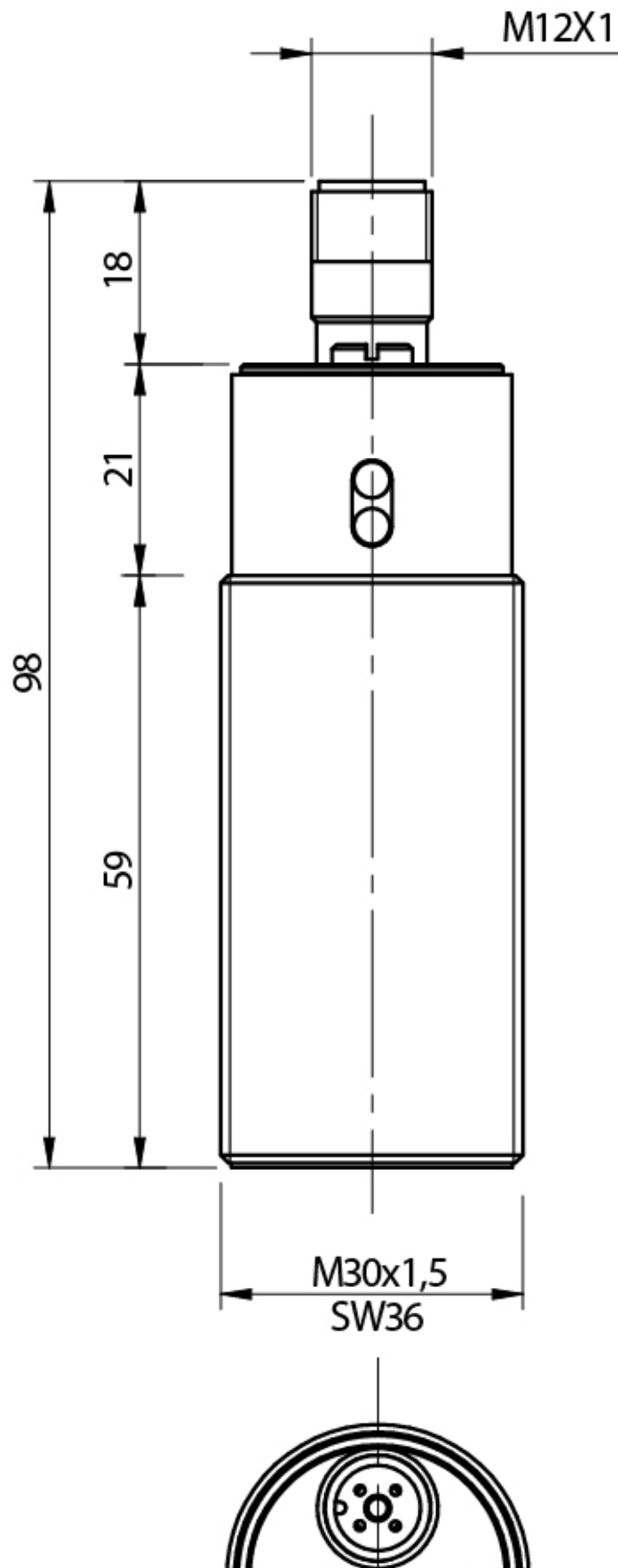


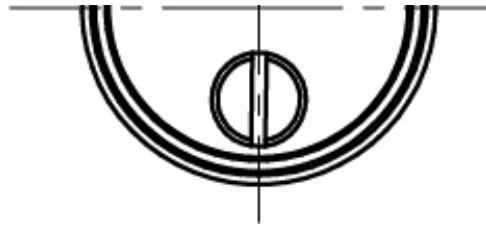
Connector



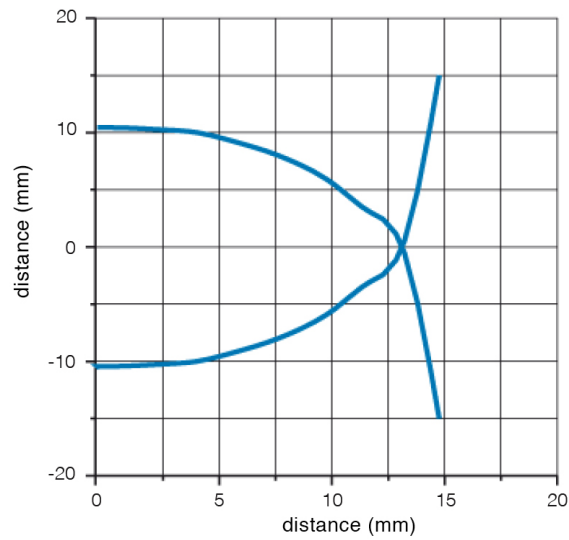
OTHERS

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
07:27:48