



C18

C18P/C0-2E

Cap.M18,2 wires
AC-NC,1/2"-20UNF,Nsch-LD
M18 CYLINDRICAL CAPACITIVE SENSORS

OVERVIEW

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



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	3...12mm
--------------------------	----------

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

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

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

Hysteresis	≤ 20%
------------	-------

Outputs

Output type	SCR
-------------	-----

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

Switching frequency	10Hz
---------------------	------

Electrical data

Operating Voltage	20...250Vac/50-60Hz
-------------------	---------------------

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

Load current	$\leq 500\text{mA}$; max 2,5A 20ms
--------------	-------------------------------------

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

Output voltage drop	$\leq 10\text{VAC}$ @ $\text{IL} \geq 20\text{mA}$
---------------------	--

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

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

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

Short-circuit protection	polarity reversal, overvoltage
--------------------------	--------------------------------

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

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

Mechanical data

Dimensions	M18 x 1 / L = 91mm
------------	--------------------

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

Housing material	Polyester
Weight	65g
Connections	M12 plug
Active Head Material	Polyester
Tightening torque	2,6Nm
Operating temperature	-35°C...+85°C (without freeze)
Storage temperature	-40°C...+85°C
Diameter/Dimension	M18

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, IP68

Accessories

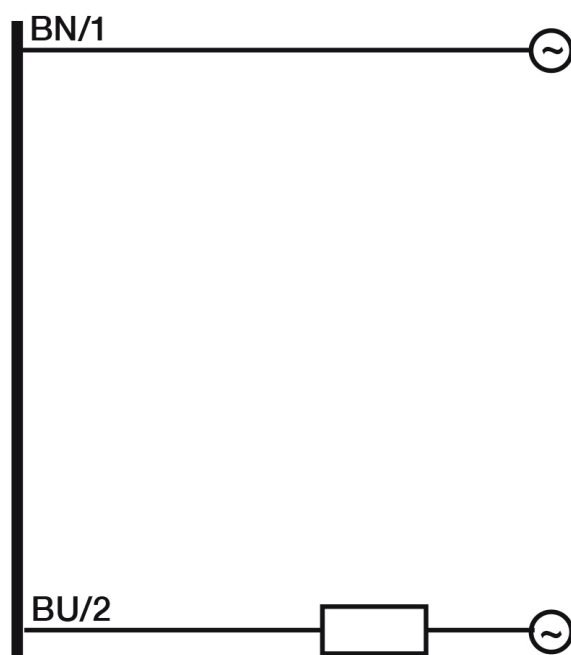
Supplied Accessories	screw driver, 2 x M18 nuts
----------------------	----------------------------

Generical Data

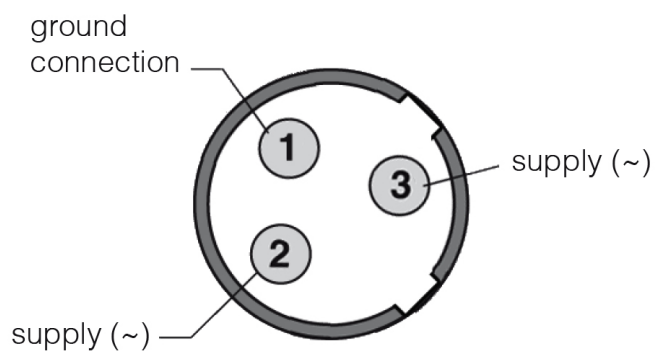
Dimensions	M18 x 1 / L = 91mm
Operating Temperature	-35°C...+85°C (without freeze)

CONNECTIONS

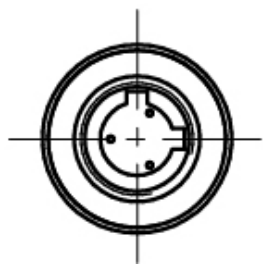
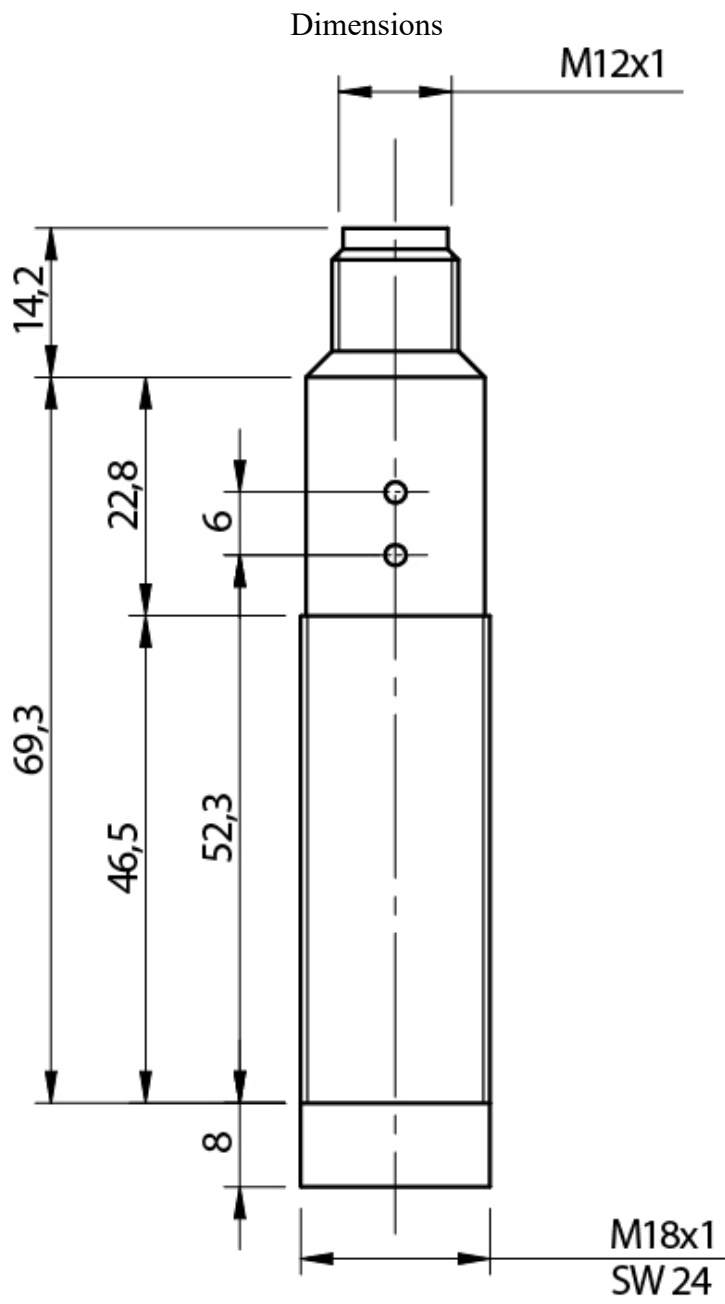
Electrical diagram



Connector



OTHERS



**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**
09/08/2026
23:48:39