



FA

FAR3/BP-0EAN

Photo.M18,PNP-NO+NC,M12 plug,Diffuse

TECHNICAL FEATURES

Detection properties

Nominal sensing distance 100mm

Thermal drift of Sr $\leq 10\%$ Sr

Repeat Accuracy 5%

Sensitivity adjustment Trimmer

Application

Function Principle Diffuse reflection (short distance, $\leq 200\text{mm}$)

Notes white target Kodak 90% 100 x 100mm

Optic position Axial

Outputs

Output type PNP NO+NC

Output Function	NO+NC
Switching frequency	250Hz
Response time	2ms

Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 30mA
Load current	≤100mA
Leakage current	≤10μA
Output voltage drop	≤2V@Iload=100mA
Max ripple content	≤10%
LED indicators	Yellow (Lon) or output status Lo/Do
Time delay before availability	≤200ms
Short-circuit protection	Short circuit (autoreset), Overvoltage
Reverse Polarity Protection	Polarity inversal, Impulsive voltage
Emission	LED Red (660nm)
Interference to external light	5000lux (incandescent lamp), 10000lux (sunlight)

Mechanical data

Housing material	PBT / PC plug
Connections	M12 plug

Active Head Material	PC
----------------------	----

Tightening torque	1Nm
-------------------	-----

Diameter/Dimension	M18
--------------------	-----

Test/Approvals

Approvals	CE cULus Ex: II 3G Ex nA IIC T6 Gc II 3D Ex tc IIIB T85°C Dc
-----------	--

EMC compatibility	EN 60947-5-2
-------------------	--------------

Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
-----------------------	--

Accessories

Supplied Accessories	nuts M18 x 1, screwdriver
----------------------	---------------------------

Generical Data

Dimensions	M18 x 1 /L =81,6mm
------------	--------------------

Operating Temperature	- 25°C...+ 70°C (Without freeze)
-----------------------	----------------------------------

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

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
03:44:03