



FAL

FAL4/0P-3E

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

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	200mm
Thermal drift of Sr	≤10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	Teach-in

Application

Function Principle	Diffuse reflection (short distance, ≤200mm)
Notes	(focalized 100mm) white target 90% Kodak 200x200mm
Optic position	Radial 90°

Outputs

Output type	PNP L/D Selectable
Output Function	L/D Selectable
Switching frequency	800Hz

Response time	625μs
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	Green power supply/yellow (LightON EG≥2)/yellow flashing (LightON 1<EG<2)
Time delay before availability	≤200ms
Short-circuit protection	Short circuit (autoreset), Overvoltage
Reverse Polarity Protection	Polarity inversal, Impulsive voltage
Emission	LASER Red (650nm) class1
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)
Mechanical data	
Housing material	Nickel plated brass / PC plug
Connections	M12 plug
Active Head Material	Glass / PC

Tightening torque	25Nm
-------------------	------

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

Test/Approvals

Approvals	CE cULus
-----------	----------

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=107,6mm
------------	-------------------

Operating Temperature	- 15°C...+ 55°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**
09/08/2026
23:47:40