

Image:

FAL

FALN/0N-3E

Photo.M18,NPN-NO/NC,M12 plug,Reflex

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	20m
Thermal drift of Sr	$\leq 10\%$ Sr
Repeat Accuracy	5%
Sensitivity adjustment	Teach-in

Application

Function Principle	Polarized
Notes	On RL110 reflector ; 30m on RL201 , 5m on RL100D
Optic position	Radial 90°

Outputs

Output type	NPN 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
Reverse Polarity Protection	Polarity inversal, Inpulsive 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**
10/08/2026
06:43:14