



FAL

FALN/BP-0EAN

Photo.M18,PNP-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	Axial

Outputs

Output type	PNP NO+NC
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Output Function	NO+NC
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	PBT / PC plug
Connections	M12 plug

Active Head Material	Glass / PC
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Tightening torque	1Nm
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Diameter/Dimension	M18
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Test/Approvals

Approvals	CE cULus Ex: II 3G Ex nA IIC T6 Gc II 3D Ex tc IIIB T85°C Dc
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EMC compatibility	EN 60947-5-2
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Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
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Accessories

Supplied Accessories	nuts M18 x 1, screwdriver
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Generical Data

Dimensions	M18 x 1 /L =81,6mm
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Operating Temperature	- 15°C...+ 55°C (Without freeze)
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Mechanical Protection	IP67
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