



FAL

FALN/BP-1AAN

Photo.M18,PNP-NO+NC,Cable,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	Nickel plated brass / PC cable exit
Connections	2m PVC cable

Active Head Material	Glass / PC
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Tightening torque	25Nm
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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=66 mm
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Operating Temperature	- 15°C...+ 55°C (Without freeze)
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Mechanical Protection	IP67
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**date of
printing**
10/08/2026
08:37:37