



FAL

FALW/BN-1E77

Photo.M18,NPN-NO+NC,M12 plug,BGS

TECHNICAL FEATURES

Detection properties

Nominal sensing distance 120mm

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

Repeat Accuracy 10%

Sensitivity adjustment Trimmer

Minimum sensing distance (blind zone) 30mm

Application

Function Principle Blackground suppression

Notes white target Kodak 90% 100 x 100mm

Optic position Axial

Outputs

Output type	NPN NO+NC
Output Function	NO+NC
Switching frequency	1,5kHz
Response time	333μs

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	LASER Red (650nm) class2
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)

Mechanical data

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Housing material	Nickel plated brass / PA12 plug
Connections	M12 plug
Active Head Material	PMMA / ABS
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
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Generical Data

Dimensions	M18 x 1/L=80m
Operating Temperature	- 15°C...+ 55°C (Without freeze)
Mechanical Protection	IP67

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