



DM

DM2/0N-1HAN

Photo.M12,NPN-NO/NC,M12 plug,Diffuse

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	100mm
Thermal drift of Sr	$\leq 10\%$ Sr
Repeat Accuracy	5%
Sensitivity adjustment	No

Application

Function Principle	Diffuse reflection (short distance, ≤ 200 mm)
Notes	white target Kodak 90% 100 x 100mm
Optic position	Axial

Outputs

Output type	NPN L/D Selectable
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Output Function	L/D Selectable
Switching frequency	400Hz
Response time	1,25ms

Electrical data

Operating Voltage	10...30VDC
No-Load supply current	$\leq 30\text{mA}$
Load current	$\leq 100\text{mA}$
Leakage current	$\leq 10\mu\text{A}$
Output voltage drop	$\leq 2\text{V}@I_{\text{load}}=100\text{mA}$
Max ripple content	$\leq 10\%$
LED indicators	Yellow (status output)
Time delay before availability	$\leq 150\text{ms}$
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED Infrared (880nm)
Interference to external light	3.000lux (incandescent lamp), 10.000lux (sunlight)
Impulsive Overvoltage Protection	Yes

Mechanical data

Housing material	Nickel plated brass
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Connections	M12 plug
Active Head Material	PMMA
Diameter/Dimension	M12

Test/Approvals

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

Accessories

Supplied Accessories	nuts M12 x 1
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Generical Data

Dimensions	M12x1/L=65,5mm
Operating Temperature	- 25°C...+ 70°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

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