



S45

950411370

S45-PR-5-Y03-NV

**HIGH PERFORMANCE EUROPEAN STYLE MINIATURE
SENSOR ALL-IN-ONE FAMILY**

OVERVIEW

- Red LED and Laser emissions
- Precise risk free laser class 1 emission
- Diffused LED proximity 800mm
- Background Suppression 400mm
- Retroreflective Class 1 Laser 15m/Red LED 7m
- Through beam Class 1 Laser 20m/Red LED 15m
- IP69K housing
- 2m Cable or metal M8 4 pole version
- PNP or NPN output with remote teach in input
- High speed RGB and white emission contrast sensor
- High precision distance sensor up to 200 mm

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	80mm
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Sensitivity adjustment	Teach-in
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Application

Function Principle	Distance sensor (Triangulation)
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Description	Miniature european style rear holes
Optic position	Radial 90°
Functions	Distance sensor (Triangulation)
Outputs	
Output type	NPN, 0...10V
Response time	0,5
Electrical data	
Operating Voltage	13...30VDC
No-Load supply current	≤ 30mA
Load current	≤100mA
Output voltage drop	≤2V@Iload=100mA
LED indicators	Green (PowerON) Yellow (status output)
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LED Red (632 nm)
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes
Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
Contact resistance	500 Vac 1 min., between electronics and housing

Mechanical data

Dimensions	12x34x20
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Material	Plastic ABS / PMMA
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Housing material	ABS(Housing), PMMA (Optics)
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Connections	M8 plug 4pin
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Active Head Material	PMMA
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Storage temperature	- 25°C...+70°C
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Diameter/Dimension	cubic
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Test/Approvals

Approvals	CE cULus
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Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
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Generical Data

Dimensions	12x34x20
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Operating Temperature	- 25°C...+ 55°C (Without freeze)
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Mechanical Protection	IP67 & IP69K
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Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973

**date of
printing**
10/08/2026
06:41:03

E-mail
info@datasensing.com