

S85

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S85-MH-5-Y03-OOV

LASER DISTANCE SENSOR FOR PRECISE MEASUREMENT UP TO 20 M WITH A MILLIMETER OF RESOLUTION AND REPEATABILITY THROUGH THE TIME OF FLIGHT TECHNOLOGY

OVERVIEW

- Time of Flight technology
- Class 2 visible red LASER for an easy alignment with the target
- Measuring range up to 10m or 20m in the advanced model
- 1 mm resolution, 7 mm accuracy, 1 mm repeatability
- 4-20 mA or 0-10 V scalable analog output and 2 digital outputs
- RS485 serial interface in the advanced model
- Standard M12 connector
- IP67 Industrial metal housing

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	10m
Resolution	1mm
Sensitivity adjustment	Teach-in

Application

Function Principle Distance sensor - Time of Flight

Description	Large case vertical mount
Optic position	Radial 90°
Functions	Distance sensor - Time of Flight
Outputs	
Output type	NPN/PNP, 010 V
Response time	30ms
Electrical data	
Operating Voltage	24VDC± 20%
No-Load supply current	≤ 2,8W
LED indicators	Yellow (outputs Q1, Q2) Green/Red (Power/out of range)
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LASER Red (658nm)
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes
Insulation resistance	$>$ 20 M Ω 500 Vdc, between electronics and housing
Contact resistance	500 Vac 1 min., between electronics and housing
Mechanical data	

37x62x60

Dimensions

Housing Material	Metal cast die zinc
Connections	M12 plug
Active Head Material	PMMA
Storage temperature	- 25°C+70°C
Material	Metal - Zamak / PMMA
Diameter/Dimension	Cubic
Test/Approvals	
Approvals	CE cULus
Shocks and vibrations	0.5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)
Generical Data	
Dimensions	37x62x60
Operating Temperature	- 15°C+ 50°C

IP67

Datasensing S.r.l.

Strada S.Caterina, 235 41122 Modena (MO) Tel. 059 420411 Fax 059 253973 E-mail info@datasensing.com

Mechanical Protection

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