S85

951511010

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, 0...10 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 MΩ 500 Vdc, between electronics and housing
Contact resistance	500 Vac 1 min., between electronics and housing

Mechanical data

Dimensions	37x62x60

Material	Metal - Zamak / PMMA
Housing material	Metal cast die zinc
Connections	M12 plug
Active Head Material	PMMA
Storage temperature	- 25°C…+70°C
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
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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