OEM AUTOMATIC

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DATASENSING - S85 - DISTANCE SENSOR

DATASENSING

S85-MH-5-Y13-OOY
951511040 Distance Sensor 20m RS485 with Display

- Measuring range up to 20m
- Analog output 4-20 mA or 0-10 V
- 2 digital outputs
- RS485 on advanced models
- IP67 industrial metal housing

PRODUCT DESCRIPTION

The S85 series is Datalogic's innovative line of LASER distance sensors based on Time of Flight technology. It can perform high-precision and long distance measurement without the use of a prismatic reflector, as well as background and foreground suppression functions.

The Class 2 highly-focused laser and the innovative integrated software make the S85 series ideal for applications that require extremely precise measurement, offering 7mm of accuracy for distances up to 20m, with 1mm of resolution and 1mm of repeatability.

The basic model (S85-MH-5-Y03-...) measures distances up to 10m and can be simply set through user-friendly push-buttons. The basic model features an M12 5-pole standard connector with analogue and digital outputs that provide distance and the object detection.

The advanced model (S85-MH-5-Y13-...) measures distances up to 20m and is easily programmable through a keyboard and display. In addition to the analogue and digital outputs, the S85 advanced model is equipped with an RS485 serial interface.
This series is designed in a sturdy metal housing, and can be easily mounted on industrial vehicles and machinery with its dedicated mounting bracket.
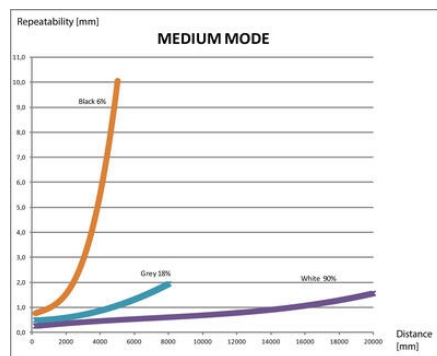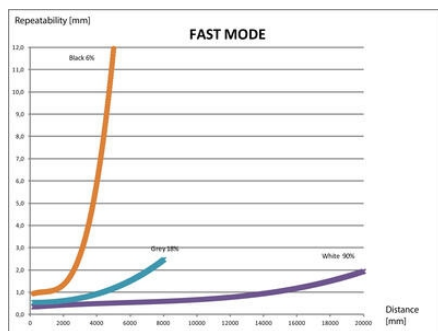
FEATURES & BENEFITS

• Time of Flight technology
• Class 2, visible red LASER for an easy alignment with the target
• Distance measurement ranging from 10m or 20m in the advanced model
• 1mm resolution, 7mm accuracy, 1mm repeatability
• 4-20 mA or 0-10 V scalable analogue output and 2 digital outputs
• RS485 serial interface in the advanced model
• Standard M12 connector
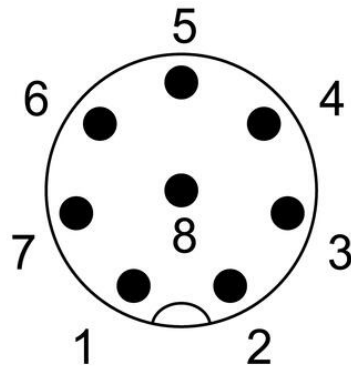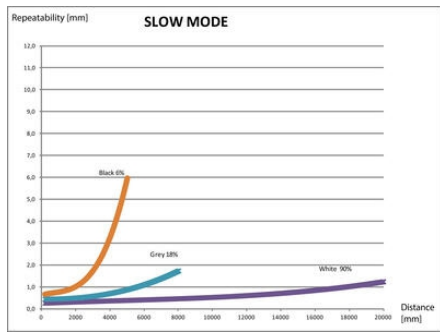• IP67 industrial metal housing

APPLICATIONS

• Automated warehousing
• Processing and Packaging machinery
• Industrial vehicles
• Automotive

TECHNICAL DATA

Approvals	CE, UL
Dimension (mm)	60 x 72 x 37
Distance max	20000 mm
Distance min	200 mm
Electrical connection	M12 8-pin connector
Function	Dark on / Light on
IP class	IP67
LED indicator	Yes
Lens material	PMMA
Light type	Red laser
Material of body	Zinc Alloy
Output	NPN, PNP, Push/Pull
Output current max	0.1 A
Photocell technology	Distance measuring laser
Reaction time	15 ms
Storage temperature max	70 °C
Storage temperature min	-25 °C
Supply voltage	24 V DC
Temperature operational max	50 °C
Temperature operational min	-15 °C
Weight	250 g

SLOW MODE

Black 6%
Grey 18%
White 90%

M12 8-pole connector