OEM AUTOMATIC

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DATASENSING - S65-M - DISTANCE SENSOR

S65-PA-5-M13-OO
956251160 TOF BGS PNP/NPN M12 Connector

DATASENSING
easing automation challenges

- Range up to 5m with Time of Flight technology
- Infrared LED for detection, green LED for alignment
- PNP/NPN outputs
- I/O link models available
- IP67 protection

PRODUCT DESCRIPTION

S65-M is the new long range background suppressor based on Time Of Flight technology. The S65-M can easily detect objects at a distance up to 5m and is ideal for precise and reliable detection applications.

Innovative system on chip technology and risk-free infrared LED emission deliver valuable cost and safety advantages when compared to laser products. Sensor alignment is quick and easy with the embedded green LED pointer.

The S65-M user interface is simple and intuitive. Product connectivity is flexible and complete with two user configurable outputs driving PNP or NPN loads; models with IO-Link V1.1 connection are also available.
The rugged and compact 50 x 50 x 24 mm housing with IP67 protection makes the S65-M the ideal product for automated warehouses, palletisers, automotive, transport & logistic, packaging applications and conveyor Lines.

FEATURES & BENEFITS

• Long Range background suppression detection up to 5 m
• Cost effective solution for precise and reliable detection
• Risk-free Infrared LED emission and embedded green LED pointer
• Two independent fully programmable outputs
• NPN/PNP or IO-Link connection models
• Rugged plastic housing in compact 50 x 50 x 24mm format

APPLICATIONS

• Presence of all medium and large sized objects on conveyors
• Critical object detection in front of problematic background
• Positioning tasks in palletizing
• Position limiter for deck and robot in automotive manufacturing
• Collision prevention limit switch for AGV applications

TECHNICAL DATA

Approvals	CE, UL

Dimension (mm)	50 x 50 x 25 mm
Distance max	5000 mm
Distance min	300 mm
Electrical connection	M12 5-pole connector
Function	Dark on / Light on
IP class	IP67
LED indicator	Yes
Lens material	PMMA
Light type	Green LED, IR LED
Material of body	ABS plastic
Output	NPN, PNP
Output current max	0.1 A
Photocell technology	Background suppression
Reaction time	8.5 ms
Storage temperature max	70 °C
Storage temperature min	-25 °C
Supply voltage	24 V DC
Temperature operational max	55 °C
Temperature operational min	-15 °C
Type of light	LED
Weight	50 g

Infraröd LED för detektering
Grön LED för inriktning

Difference white/grey – white/black

Typical spot size - squared section

Reading area dimension

Difference white/grey – white/black

Typical spot size - squared section

SPOT SIZE (mm)

DISTANCE FROM OPTIC WINDOW (mm)

Reading area dimension