

# S65-M



**956251160**

**S65-PA-5-M13-00**

TIME OF FLIGHT LONG RANGE BACKGROUND  
SUPPRESSOR SERIES

## OVERVIEW

- Long Range background suppression detection up to 5m
- Black 6% detection up to 3,5mt
- Model for stable detection on glossy surface
- 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
- Current and Voltage Analog out models
- Rugged plastic housing in compact 50x50x24 mm format

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	5m
Sensitivity adjustment	Teach-in
Minimum sensing distance (blind zone)	0,3m

### Application

Function Principle	Background suppression - TOF
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Optic position	axial
Functions	Background suppression - TOF
<b>Outputs</b>	
Output type	NPN/PNP - Dark/Light sel.
Switching frequency	<65Hz
Response time	8
<b>Electrical data</b>	
Operating Voltage	24VDC ± 20%
No-Load supply current	≤ 2,2W
Load current	≤100mA
LED indicators	Yellow Q1; Yellow Q2; Green PowerON; Green PNP/NPN
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LED Infrared
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

Housing Material	Plastic - ABS / PMMA
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	25x50x50
Operating Temperature	- 15°C...+ 55°C (with device ON)
Mechanical Protection	IP67

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