

# S65-M

956251170

S65-PA-5-M13-00Z  
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
--------------------	------------------------------

Optic position	axial
Functions	Background suppression - TOF
Outputs	
Output type	NPN/PNP - IO-LINK
Switching frequency	<65Hz
Response time	8
Electrical data	
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
-----------------------	------

## Datasensing S.r.l.

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

**date of  
printing**  
07/01/2026  
17:44:19