

S65-M



956250001

S65-PA-5-M53-00Z

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	4m
Sensitivity adjustment	Teach-in
Minimum sensing distance (blind zone)	0,3m

Application

Function Principle	Background suppression - TOF
--------------------	------------------------------

Description	Compact square case
Optic position	axial
Functions	Background suppression - TOF

Outputs

Output type	NPN/PNP - IO-LINK
Switching frequency	<65Hz
Response time	30

Electrical data

Operating Voltage	24VDC \pm 20%
No-Load supply current	\leq 2,2W
Load current	\leq 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 M Ω 500 Vdc, between electronics and housing

Contact resistance	500 Vac 1 min., between electronics and housing
--------------------	---

Mechanical data

Dimensions	25x50x53
------------	----------

Housing Material	Plastic - ABS / PMMA
------------------	----------------------

Connections	M12 plug
-------------	----------

Active Head Material	PMMA
----------------------	------

Storage temperature	- 25°C...+70°C
---------------------	----------------

Material	
----------	--

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)

date of
printing
02/04/2026
23:02:48

Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com