DATALOGIC

Time Of Flight long range background suppressor

- Long Range background suppression detection up to 5m
- 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 50x50x24 mm format



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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
- Checking filling level for liquid and objects

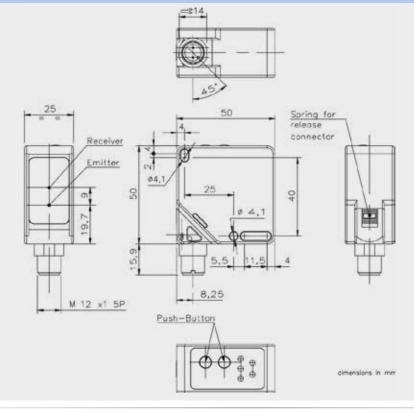
S65-M			
Operating Distance		0.15 m (90% white) / 0.14 m (18% grey) / 0.12.5 m (6 % black)	
Hysteresis		20mm / 50mm / 80mm	
Difference White 90%/Grey 18% and White 90%/Black 6%		see chart (value Typ, 1 , T=25°C, ambient light <1Klux)	
Repeatability error	20mm for distance > 750mm / 40mm for distance <= 750mm (1 , T=25°		
Response time	8.5 msec max.T=25°C		
Operating Frequency		<65Hz	
Setting		Teach-in buttons SET1, SET2	
Teach-in Input		Active High (+24V) 1 sec < t < 3 sec teach Q1 / > 3 sec teach Q2	
	Vdc	24 VDC ± 20%	
Supply voltage	Vac		
	Vac/dc		
	PNP		
	NPN		
Switching output	NPN/PNP	Can be set up (PNP NPN / Light Dark) 100mA max.	
	relay		
	other	IO-Link V1.1	
	cable		
Connections	connector	M12 - 5 poles	
	pig-tail		
Exposed material		Body ABS / Display POLYESTER	
Front side material		PMMA	
Dimensions		50 x 50 x 25 mm	
Mechanical protection		IP67	
Weight		50 g.max.	
UL (requirements)		Class 2 power supply according to UL 508	

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TECHNICAL DATA

Supply voltage	24 VDC ± 20%		
Consumption	< 2.2 W (excluding any loads)		
Operating Distance	0.15 m (90% white) / 0.14 m (18% grey) / 0.12.5 m (6 % black)		
Hysteresis	20mm / 50mm / 80mm		
Response time	8.5 msec max.		
Difference White 90%/Grey 18% and White 90%/Black 6%	% see chart (value Typ, 1 , T=25°C, ambient light <1Klux)		
Repeatability error	20mm for distance > 750mm / 40mm for distance <= 750mm (1 , T=25°C)		
Thermal compensation error	1.5 mm /°C (T ≠ 25°C)		
Switching output	Can be set up (PNP NPN / Light Dark) 100mA max.		
Teach-in Input	Active High (+24V) 1 sec < t < 3 sec teach Q1 / > 3 sec teach Q2		
Warming-up time	20 min typ		
Warnings	Q1 (YELLOW) / Q2 (YELLOW) / ON PWR (GREEN) - PNP / NPN (GREEN)		
Operating temperature	-15° +55 °C (with device ON)		
Storage temperature	-25 +70 °C		
Electrical strength	500 VAC, 1 min between electronics and case		
Insulation resistance	> 20 M , 500 VDC between electronics and case		
Reading spot size	typ 200x200 mm @ 4m		
Pointer spot size (green)	typ 250x250 mm @ 4m		
Max. deviation of pointer/reading spot axes origin	+/- 40 mm		
Emission and Wavelength	LED / 850 nm		
Ambient light rejection	according to EN 60947-5-2,		
Vibrations	width 0.5 mm, frequency 10 55Hz, per axis (EN60068-2-6)		
Shock resistance	11 ms (30 G) 6 shocks for each axis (EN60068-2-27)		
Humidity	< 90% no condensation		
Exposed material	Body ABS / Display POLYESTER		
Front side material	PMMA		
Mechanical protection	IP67		
Connections	M12 - 5 poles		
(Overall) Dimensions	50 x 50 x 25 mm		
Weight	50 g.max.		
I/O LINK Connection	NO (See parameter table on www.datalogic.com)		
UL (requirements)	Class 2 power supply according to UL 508		

DIMENSIONS

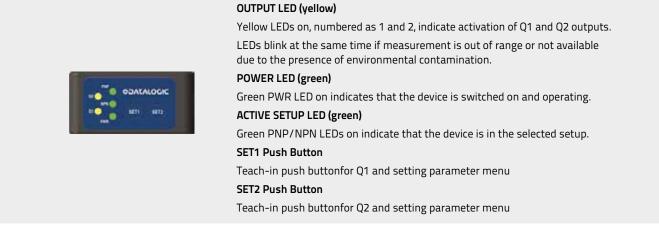


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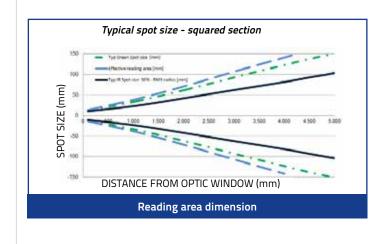
CONNECTION

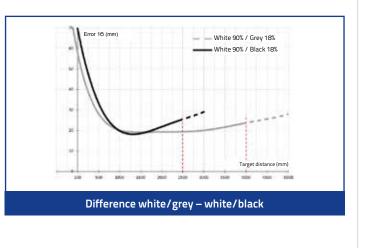


SETTINGS



DETECTION DIAGRAMS



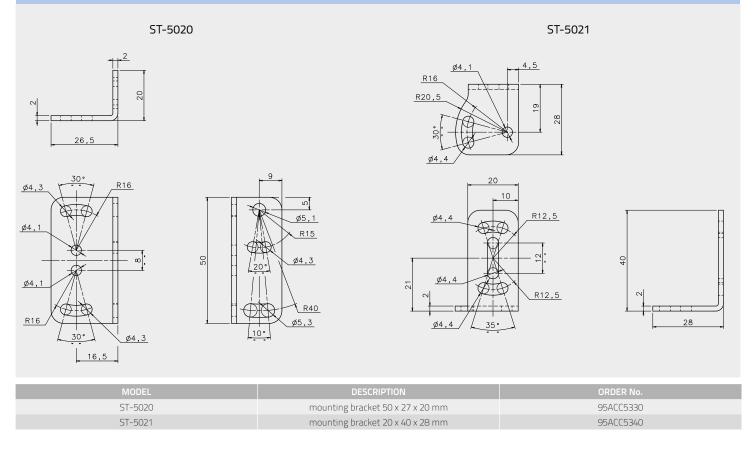


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MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	CONNECTION	OUTPUT	MODEL	ORDER No.
Background Suppression long range IR	M12 5 poles	NPN/PNP	S65-PA-5-M13-00	956251160
	M12 5 poles	IO-LINK	S65-PA-5-M13-00Z	956251170

ACCESSORIES



CABLES							
ТҮРЕ	DESCRIPTION	LENGTH	MODEL	ORDER No.			
Axial M12 Connector	M12 5-pole conn. with 3 m unshielded cable	3 m	CS-A1-03-G-03	95ACC2110			
	M12 5-pole conn. with 5 m unshielded cable	5 m	CS-A1-03-G-05	95ACC2120			
	M12 5-pole conn. with 10 m unshielded cable	10 m	CS-A1-03-G-10	95ACC2140			