COLOR & CONTRAST SENSORS



OJATALOGIC



ADVANCED COLOR AND CONTRAST SENSORS IN COMPACT CASE

Color S65-V:

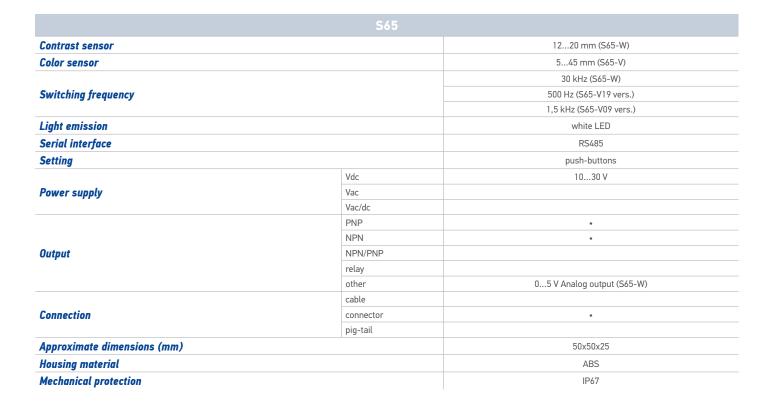
- 3 independent NPN or PNP outputs and RS 485 serial interface
- 3 channel color sensor with 10 tolerance levels
- Wide spectrum white light LED emission and RGB photo-receiver
- 2 push button setting with 4 digit display indicator

Contrast S65-W:

- High 12 bit resolution and 30 kHz switching frequency
- PNP or NPN output and RS 485 serial interface

APPLICATIONS

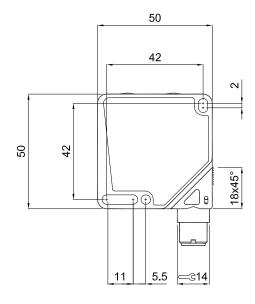
- Packaging lines
- Contrast reading
- Automatic machine

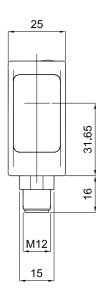


TECHNICAL DATA

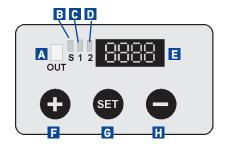
Power supply	10 30 Vdc (limit values)		
Ripple	2 Vpp max.		
	50 mA max. at 24 Vdc (mod. S65-W)		
Consumption (output current excluded)	60 mA max. at 24 Vdc (mod. S65-V)		
Light emission	white LED 400-700 nm		
Setting	SET push-buttons		
	SEL push-buttons (mod. S65-V)		
Indicators	yellow OUTPUT LED		
naicators	green 4-digit display, 3 OUTPUT STATUS LEDs (S65-V), STABILITY and 2 OUTPUT DELAY LEDs (mod. S65-W)		
	1 PNP or NPN; analog output (mod. S65-W)		
Output	3 PNP or NPN; RS485 serial interface (mod. S65-V)		
Output current	100 mA max.		
Saturation voltage	2 V max.		
_	5 ms (norm) and 1 ms (fast) (mod. S65-V19)		
Response time	335 μs (mod. S65-V09)		
····· • • • • • • • • • • • • • • • • •	16 μs (mod. S65-W)		
	100 Hz (norm) and 500 Hz (fast) (mod. S65-V19)		
Switching frequency	1,5 kHz (mod. S65-V09)		
	30 kHz (mod. S65-W)		
	M12 5-pole connector (mod. S65-W standard vers.),		
Connection	M12 8-pole connector (mod. S65-W vers. with RS485 serial interface)		
	M12 8-pole connector (mod. S65-V)		
Dielectric strength	500 Vac, 1 min between electronics and housing		
Insulating resistance	>20 M Ω , 500 Vdc between electronics and housing		
Electrical protection	class 2		
Mechanical protection	IP67		
Ambient light rejection	according to EN 60947-5-2		
Vibrations	0,5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)		
Shock resistance	11 ms (30 G) 6 shock for every axis (EN60068-2-27)		
Minimum spot dimension	3x1 mm at 19 mm (mod. S65-W)		
•	Ø 4 mm (mod. S65-V)		
Depth of field	± 2 mm (mod. S65-W)		
Housing material	ABS		
Lens material	window and lenses in glass		
Operating temperature	-10 55 °C		
Storage temperature	-20 70 °C		
Weight	100 g max.		

DIMENSIONS



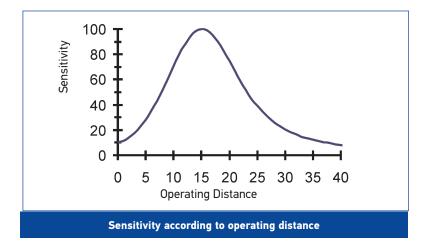


S65-W INDICATORS AND SETTINGS S65-W

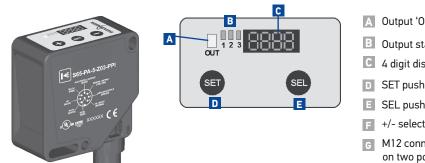


- A Output status LED
- B Stability LED
- C Delay ON LED
- D Delay OFF LED
- E 4-digit display
- F +/- push-buttons
- G SET push-button
- H M12 connector output, orientable on two positions

DETECTION DIAGRAMS S65-W

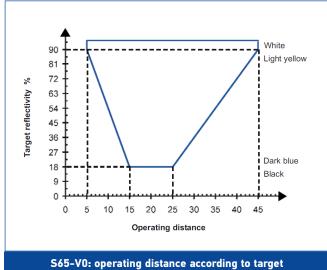


S65-V INDICATORS AND SETTINGS S65-W

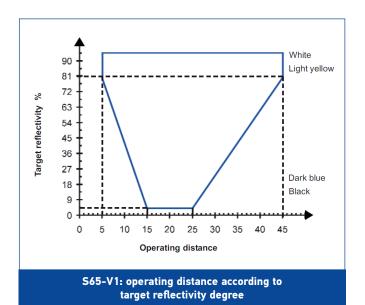


- Output 'OR' function LED
- B Output status LEDs
- C 4 digit display
- SET push-button
- SEL push-button
- +/- selection push-buttons
- M12 connector output, orientable on two positions

DETECTION DIAGRAMS S65-W



reflectivity degree



Color sensor S65-V

Contrast sensor S65-W

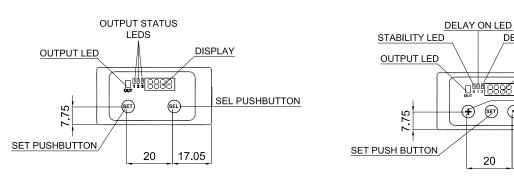
DELAY OFF LED

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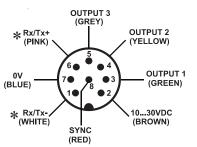
DISPLAY

+/- PUSH BUTTONS

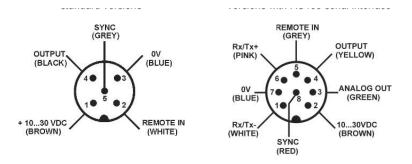


CONNECTIONS

M12 CONNECTOR - COLOR SENSOR S65-V



M12 CONNECTOR - CONTRAST SENSOR S65-W



* Available only for version with RS485 serial connection (S65-PA-5-V09-xxxZ).

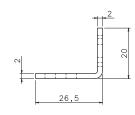
MODEL SELECTION AND ORDER INFORMATION

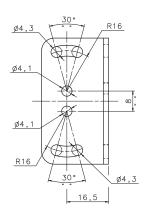
OPTIC FUNCTION	HOUSING	CONNECTION	OUTPUT	MODEL	ORDER No.
	335 µs	M12 8-pole Connector	PNP, RS485	S65-PA-5-V09-PPPZ	956251000
			NPN, RS485	S65-PA-5-V09-NNNZ	956251010
			PNP	S65-PA-5-V09-PPP	956251020
Colonian			NPN	S65-PA-5-V09-NNN	956251030
Color sensor	5 ms (norm) or 1 ms (fast)		PNP, RS485	S65-PA-5-V19-PPPZ	956251080
			NPN, RS485	S65-PA-5-V19-NNNZ	956251090
			PNP	S65-PA-5-V19-PPP	956251100
			NPN	S65-PA-5-V19-NNN	956251110
		M12 5-pole Connector	NPN	S65-PA-5-W09-NH	954201000
Contrast sensor	16 µs	M12 8-pole Connector	NPN, RS485	S65-PA-5-W09-NHZ	954201010
		M12 5-pole Connector	PNP	S65-PA-5-W09-PH	954201020
		M12 8-pole Connector	PNP, RS485	S65-PA-5-W09-PHZ	954201030

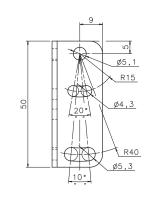
ACCESSORIES

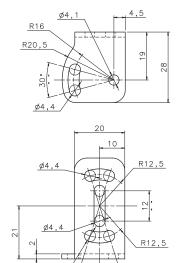
ST-5020

ST-5021

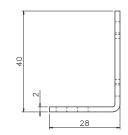








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MODEL	DESCRIPTION	ORDER No.
ST-5020	mounting bracket 50 x 27 x 20 mm	95ACC5330
ST-5021	mounting bracket 20 x 40 x 28 mm	95ACC5340

CABLES

ТҮРЕ	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M12 connector		3 m	CS-A1-03-G-03	95ACC2110
	5-pole, grey, P.V.C.	5 m	CS-A1-03-G-05	95ACC2120
		10 m	CS-A1-03-G-10	95ACC2140
	5-pole, U.L., black, P.V.C	3 m	CS-A1-03-U-03	95ASE1170
		5 m	CS-A1-03-U-05	95ASE1180
		10 m	CS-A1-03-U-10	95ASE1190
		15 m	CS-A1-03-U-15	95ASE1200
		25 m	CS-A1-03-U-25	95ASE1210
		50 m	CS-A1-03-U-50	95A252700
		3 m	CS-A1-06-B-03	95ACC2260
	8-pole, black, P.V.C.	5 m	CS-A1-06-B-05	95ACC2270
		10 m	CS-A1-06-B-10	95ACC2280
Radial M12 Connector		3 m	CV-A2-26-B-03	95ACC1600
	-	5 m	CV-A2-26-B-05	95ACC1610
		10 m	CV-A2-26-B-10	95ACC1620
		3 m	CV-A1-26-B-03	95ACC1510
Axial M12 Connector	8-pole, shielded, black, P.V.C.	5 m	CV-A1-26-B-05	95ACC1520
		10 m	CV-A1-26-B-10	95ACC1530
		15 m	CV-A1-26-B-15	95ACC2080
		25 m	CV-A1-26-B-25	95ACC2100
		3 m	CS-A1-06-U-03	95ASE1220
		5 m	CS-A1-06-U-05	95ASE1230
		10 m	CS-A1-06-U-10	95ASE1240
	8-pole, U.L., black, P.V.C.	15 m	CS-A1-06-U-15	95ASE1250
		25 m	CS-A1-06-U-25	95ASE1260
		50 m	CS-A1-06-U-50	95A252710
	8-pole, black	Connector-not cabled	CS-A1-06-B-NC	95ACC2550

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