Color & Contrast Sensors - S65 SOATALOGIC

Advanced color and contrast sensors in compact case

Color S65-V:

S65

- 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:

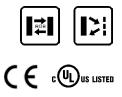
- High 12 bit resolution and 30 kHz switching frequency
- PNP or NPN output and RS 485 serial interface

APPLICATIONS

- -Packaging lines
- -Contrast reading
- -Automatic machine

S65			
Contrast sensor		1220 mm (S65-W)	
Color sensor		545 mm (S65-V)	
Switching frequency		30 kHz (S65-W)	
		500 Hz (S65-V19 vers.)	
		1,5 kHz (S65-V09 vers.)	
Light emission		white LED	
Serial interface		RS485	
Setting		push-buttons	
-	Vdc	1030 V	
Power supply	Vac		
	Vac/dc		
	PNP	•	
	NPN	•	
Dutput	NPN/PNP		
	relay		
	other	05 V Analog output (S65-W)	
	cable		
Connection	connector	•	
	pig-tail		
pproximate dimensions (mm)		50x50x25	
Housing material		ABS	
Mechanical protection		IP67	

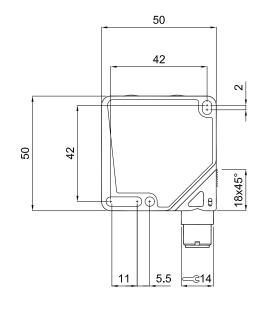


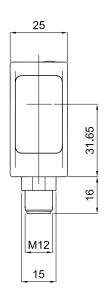


Color & Contrast Sensors - S65 ODATALOGIC

TECHNICAL DATA				
Power supply	10 30 Vdc (limit values)			
Ripple	2 Vpp max.			
Consumption (output current excluded)	50 mA max. at 24 Vdc (mod. S65-W) 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 green 4-digit display, 3 OUTPUT STATUS LEDs (S65-V), STABILITY and 2 OUTPUT DELAY LEDs (mod. S65-W)			
Output	1 PNP or NPN; analog output (mod. S65-W) 3 PNP or NPN; RS485 serial interface (mod. S65-V)			
Output current	100 mA max.			
Saturation voltage	2 V max.			
Response time	5 ms (norm) and 1 ms (fast) (mod. S65-V19) 335 µs (mod. S65-V09) 16 µs (mod. S65-W)			
Switching frequency	100 Hz (norm) and 500 Hz (fast) (mod. S65-V19) 1,5 kHz (mod. S65-V09) 30 kHz (mod. S65-W)			
Connection	M12 5-pole connector (mod. S65-W standard vers.), 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	$>20~M\Omega$, 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.			

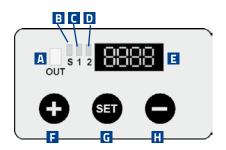
DIMENSIONS





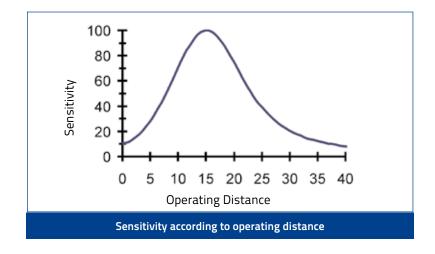
S65-W

INDICATORS AND SETTINGS S65-W



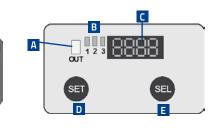
- A Output status LED
- B Stability LED
- C Delay ON LED
- D Delay OFF LED
- E 4-digit display
- F +/- push-buttons
- G SET push-button
- H M12 connector output, orientable on two positions

DETECTION DIAGRAMS S65-W



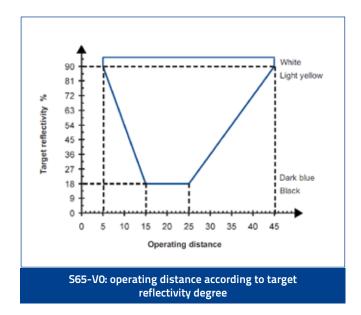
S65-V

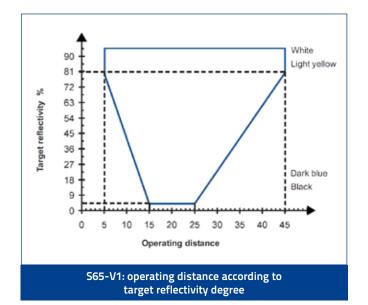
INDICATORS AND SETTINGS S65-V



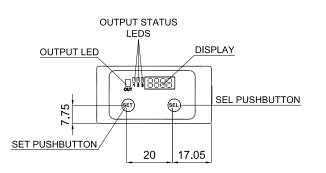
- A Output 'OR' function LED
- B Output status LEDs
- C 4 digit display
- D SET push-button
- E SEL push-button
- +/- selection push-buttons
- G M12 connector output, orientable on two positions

DETECTION DIAGRAMS S65-V



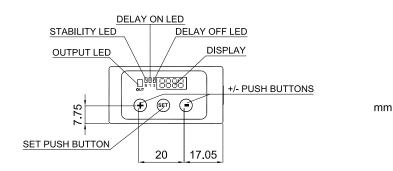


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Color sensor S65-V

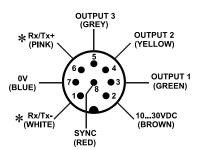
Contrast sensor S65-W



M12 CONNECTOR - CONTRAST SENSOR S65-W

CONNECTIONS

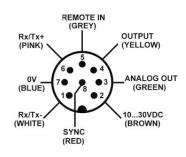
M12 CONNECTOR - COLOR SENSOR S65-V



OUTPUT, (GREY) (GREY) (BLUE) (BLUE) + 10...30 VDC (BROWN) (WHITE)

standard versions

versions with RS485 serial interface



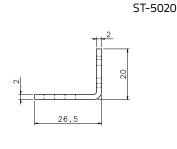
* Available only for version with RS485 serial connection (S65-PA-5-V09-xxxZ).

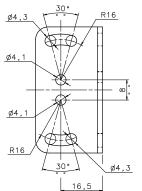
MODEL SELECTION AND ORDER INFORMATION

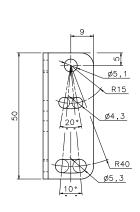
OPTIC FUNCTION	HOUSING	CONNECTION	OUTPUT	MODEL	ORDER No.
Color sensor	335 µs		PNP, RS485	S65-PA-5-V09-PPPZ	956251000
			NPN, RS485	S65-PA-5-V09-NNNZ	956251010
			PNP	S65-PA-5-V09-PPP	956251020
		M128-pole Connector	NPN	S65-PA-5-V09-NNN	956251030
	5 ms (norm) or 1 ms (fast)		PNP, RS485	S65-PA-5-V19-PPPZ	956251080
			NPN, RS485	S65-PA-5-V19-NNNZ	956251090
			PNP	S65-PA-5-V19-PPP	956251100
			NPN	S65-PA-5-V19-NNN	956251110
Contrast sensor	16 µs	M12 5-pole Connector	NPN	S65-PA-5-W09-NH	954201000
		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

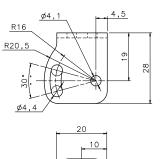
Color & Contrast Sensors - S65 **CONTACOUNT**

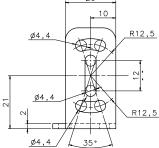
ACCESSORIES

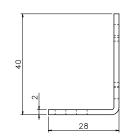












MODEL	DESCRIPTION	ORDER No.
ST-5020	mounting bracket 50 x 27 x 20 mm	95ACC5330
ST-5021	mounting bracket 20 x 40 x 28 mm	95ACC5340

CABLES

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
		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
		3 m	CS-A1-03-U-03	95ASE1170
		5 m	CS-A1-03-U-05	95ASE1180
0		10 m	CS-A1-03-U-10	95ASE1190
Axial M12 connector	5-pole, U.L., black, P.V.C	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
		3 m	CV-A2-26-B-03	95ACC1600
Radial M12 Connector		5 m	CV-A2-26-B-05	95ACC1610
		10 m	CV-A2-26-B-10	95ACC1620
		3 m	CV-A1-26-B-03	95ACC1510
	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
A island Comparison		3 m	CS-A1-06-U-03	95ASE1220
Axial M12 Connector		5 m	CS-A1-06-U-05	95ASE1230
	8-pole, U.L., black, P.V.C.	10 m	CS-A1-06-U-10	95ASE1240
		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

ST-5021