

Photoelectric Sensors

Color Sensors-CS20 (B)



Descriptions:

Simple color teaching, emitting sensing beam, analogue or digital output according to different colors

Features:

- Color detection by emitting and reflection light
- Deposit max 4 reference colors
- Programming by reaching

Type

Detection mode	Type	Distance	Frequency	Beam Light spot	Output	Connection	Wiring
Color sensor with analogue	CS20-F20CPLI6Q12.1	20±5mm ¹⁾	—	red, green, blue 4.0x1.2mm ²	Analogue/mA PNP	M12 connector	1
	CS20-F50CPLI6Q12.1	50±5mm ²⁾	—	red, green, blue 10.0x2.0mm ²	Analogue/mA PNP	M12 connector	1
Color sensor with switch	CS20B-F60CP6Q12.1	60mm	6kHz	red, green, blue 13.0x13.0mm ²	1X PNP	M12 connector	2
	CS20B-F604CP6Q12.8	60mm	3.5kHz	red, green, blue 13.0x13.0mm ²	4X PNP	M12 connector	4
Color sensor with switch	CS20B-F60CN6Q12.1	60mm	6kHz	red, green, blue 13.0x13.0mm ²	1X NPN	M12 connector	3
	CS20B-F604CN6Q12.8	60mm	3.5kHz	red, green, blue 13.0x13.0mm ²	4X NPN	M12 connector	5
Color sensor with switch	CS20B-F12.5CP6Q12.1	12.5mm	6kHz	red, green, blue 4.0x2.0mm ²	1X PNP	M12 connector	2
	CS20B-F12.54CP6Q12.8	12.5mm	3.5kHz	red, green, blue 4.0x2.0mm ²	4X PNP	M12 connector	4
Color sensor with switch	CS20B-F12.5CN6Q12.1	12.5mm	6kHz	red, green, blue 4.0x2.0mm ²	1X NPN	M12 connector	3
	CS20B-F12.54CN6Q12.8	12.5mm	3.5kHz	red, green, blue 4.0x2.0mm ²	4X NPN	M12 connector	5

1)other sensing range 12±5mm/50±5mm available by changing objective lens

2)other sensing range 12±5mm/20±5mm available by changing objective lens

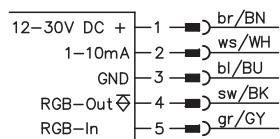
Technical data

Operating voltage	10...30/12...30VDC
Ripple voltage	≤15% of U _B
No-load current	≤80mA/≤60mA
High/low level signa	≥(U _B -2V)/ ≤2V
Green LED	Ready
Yellow LED	Switch status/error
OrangeLED(CS 422)	Teach
Housing	ABS/metal
Optical face	Glass
Weight	300g
Ambient temperature	-25°C...+55°C
Protection degree	IP 67
LED degree	1 acc.to EN 60825-1
Standard applied	IEC 60947-5-2

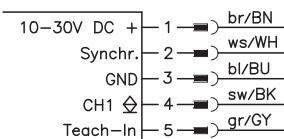
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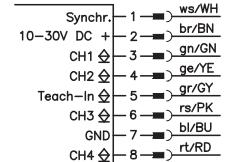
Electrical connection



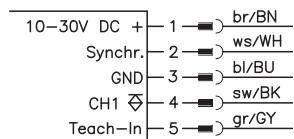
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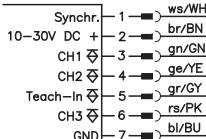
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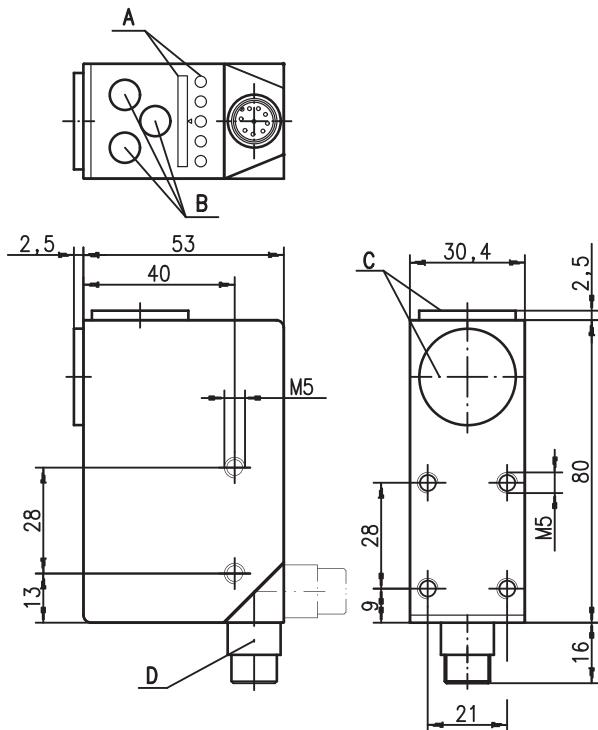


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Dimensions



- A LED
- B teaching button
- C objective lens
- D 90°turning connector