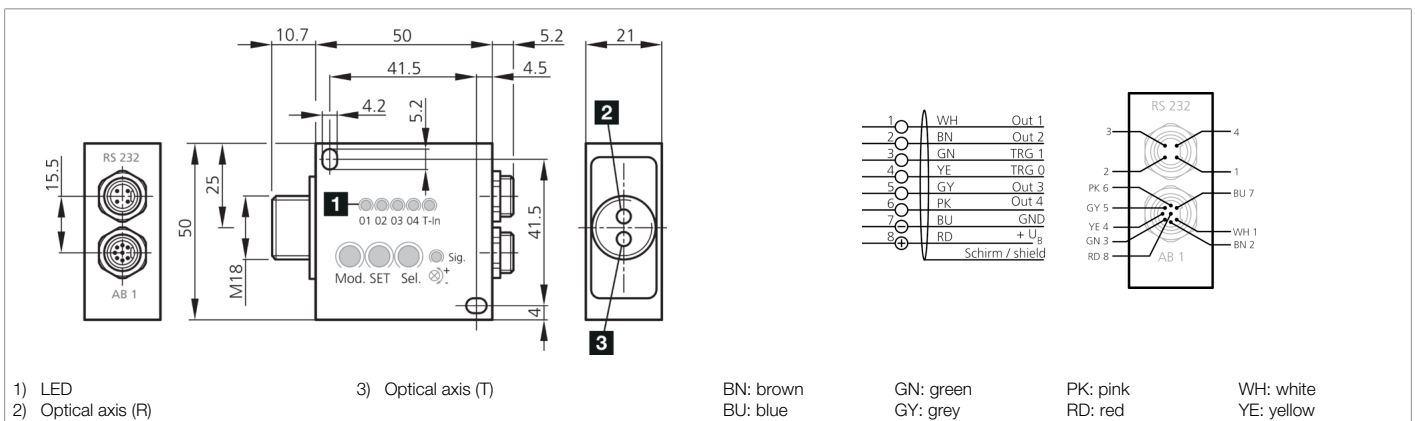




205450
FS 12-50 M G3-B8
Color sensor

- 4-channel, teach-in for many standard applications
- 15 channels with binary coding
- Very short response time
- Adjustable color tolerance
- High ambient light compensation
- Further settings possible via interface
- Integrated long-term stability
- Distinction of smallest shade nuances
- Parameterization by keys and software



Function										

Technical data (typ.)		+20°C, 24 V DC
Service voltage		18 ... 28 V DC
No-load current (max.)		500 mA
Housing dimensions		50 x 50 x 21 mm
Housing length		21 mm
Housing height		50 mm
Housing width		50 mm
Fiber-optic cable connection / fixed optics		M18 x 1
Housing material		Aluminum (Anodized)
Protection class		III, operation on protective low voltage
Operating mode		<ul style="list-style-type: none"> ■ Continuous ■ External triggering ■ Externally triggered color sequence detection ■ External teaching ■ Self-luminous objects ■ Body colors ■ Each color can be assigned to any output
Color memory internal		100
Number of measuring channels		1
Color channels of sensor		<ul style="list-style-type: none"> ■ 4 (Teachable via keys) ■ 15 (Evaluation using software, with binary coding)
Color space mode		<ul style="list-style-type: none"> ■ XYZ / xyY / u'v'L* / L*a*b* / xyl (Body colors) ■ XYZ / xyY / u'v'L / xyl (Self-luminous objects)



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Color sensor

Technical data (typ.)		+20°C, 24 V DC	
Detection modes		<ul style="list-style-type: none"> ■ Minimum spacing (Assignment of the measured color to the stored color with the smallest color difference) ■ Check sphere (Check whether the measured color is within a specified tolerance) ■ Check cylinder (Check whether the measured color is within a specified tolerance) 	
Trigger input		TRG 0	
Teach input		TRG 1	
Switching output		pnp+npn (4x), NO/NC	
Voltage drop (max.)		2 V	
Interface		RS232	
Pulse stretching		0 ... 65535 ms adjustable	
Switching output coding		<ul style="list-style-type: none"> ■ binary coded = 15 switching conditions (4x) ■ pnp + npn (4x) 	
Light source		LED (can be switched off)	
Color		White	
Light spot size		Dependent on focus optics	
Color resolution		DE Lab < 1	
Ambient light compensation		dynamic, can be switched off	
Range		Dependent on fiber-optic cable	
Switching hysteresis (max.)		0 ... 255 % (10 % default)	
Tolerance ranges		5 selectable by keys / using software	
Operating elements		3	
Display		LED (Channel state (4x), programming (5x))	
Response time / scanning frequency		<ul style="list-style-type: none"> ■ 0.2 ms (bei 5.000 Hz: bis zu 100 Farben auswertbar) ■ 0.1 ms (bei 10.000 Hz: bis zu 30 Farben auswertbar) ■ 0.05 ms (bei 20.000 Hz: 3 Farben auswählbar) 	
Response time		0.05 ms	
Release time		< 20 000 Hz	
Ambient temperature during operation		-10 ... +55 °C	
Protection type		IP 54	
Connection		Connector, M9, 8-pin	
More information / accessories		https://www.di-soric.com/205450	