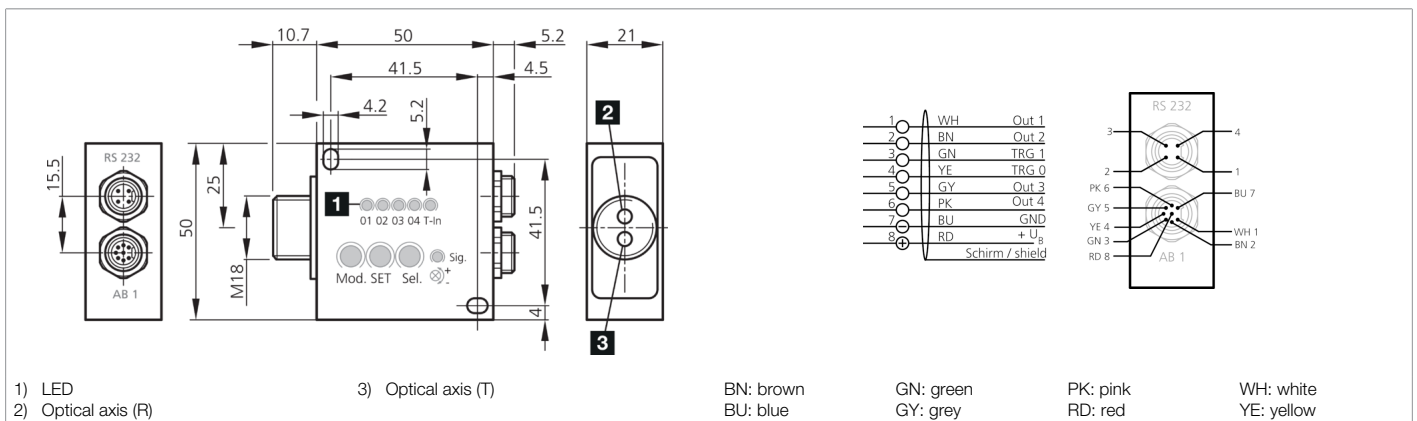




**205450**  
**FS 12-50 M G3-B8**  
**Color sensor**

- 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"> <li>■ Continuous</li> <li>■ External triggering</li> <li>■ Externally triggered color sequence detection</li> <li>■ External teaching</li> <li>■ Self-luminous objects</li> <li>■ Body colors</li> <li>■ Each color can be assigned to any output</li> </ul>
Color memory internal		100
Number of measuring channels		1
Color channels of sensor		<ul style="list-style-type: none"> <li>■ 4 (Teachable via keys)</li> <li>■ 15 (Evaluation using software, with binary coding)</li> </ul>
Color space mode		<ul style="list-style-type: none"> <li>■ XYZ / xyY / u'v'L* / L*a*b* / xyl (Body colors)</li> <li>■ XYZ / xyY / u'v'L / xyl (Self-luminous objects)</li> </ul>



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**Color sensor**

Technical data (typ.)		+20°C, 24 V DC
Detection modes		<ul style="list-style-type: none"> <li>■ Minimum spacing (Assignment of the measured color to the stored color with the smallest color difference)</li> <li>■ Check sphere (Check whether the measured color is within a specified tolerance)</li> <li>■ Check cylinder (Check whether the measured color is within a specified tolerance)</li> </ul>
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"> <li>■ binary coded = 15 switching conditions (4x)</li> <li>■ pnp + npn (4x)</li> </ul>
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"> <li>■ 0.2 ms (bei 5.000 Hz: bis zu 100 Farben auswertbar)</li> <li>■ 0.1 ms (bei 10.000 Hz: bis zu 30 Farben auswertbar)</li> <li>■ 0.05 ms (bei 20.000 Hz: 3 Farben auswählbar)</li> </ul>
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		<a href="https://www.di-soric.com/205450">https://www.di-soric.com/205450</a>