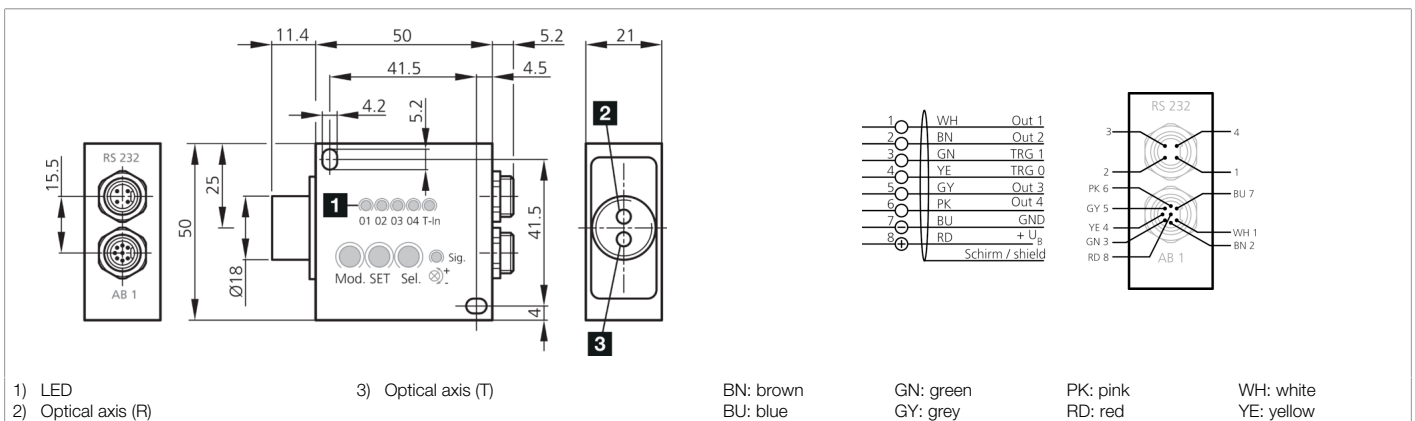




**207126**  
**FS 50 M 60 G3-B8**  
**Color sensor**

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



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	Fixed optics
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 (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>



**207126**  
**FS 50 M 60 G3-B8**  
**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		5 ... 10 mm	
Color resolution		DE Lab < 1	
Ambient light compensation		dynamic, can be switched off	
Range		30 ... 60 mm	
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/207126">https://www.di-soric.com/207126</a>	