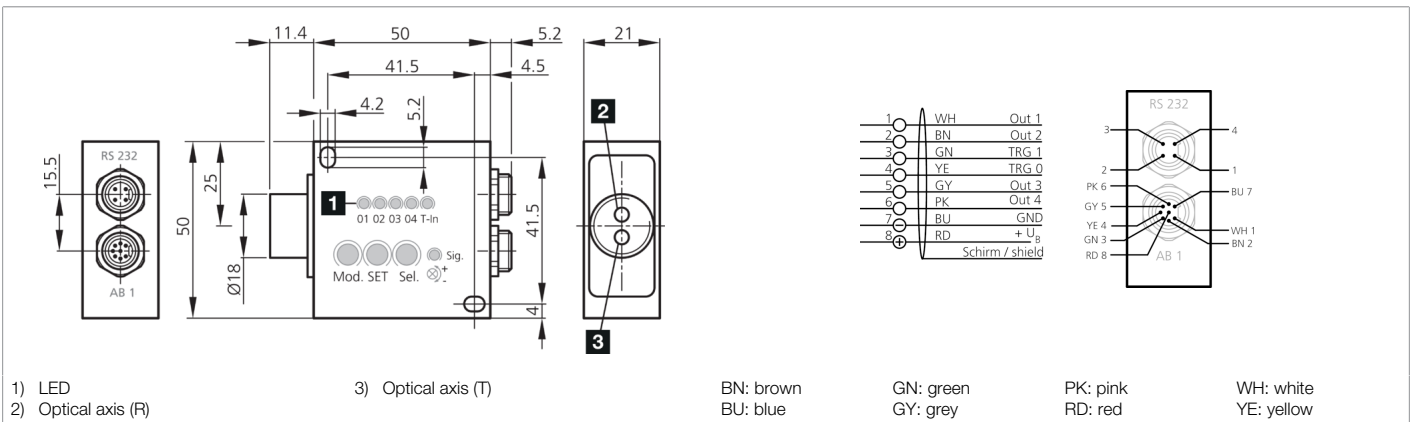




207126
FS 50 M 60 G3-B8
Color sensor

- 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"> ■ 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 (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 ... 65.535 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		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"> ■ 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/207126