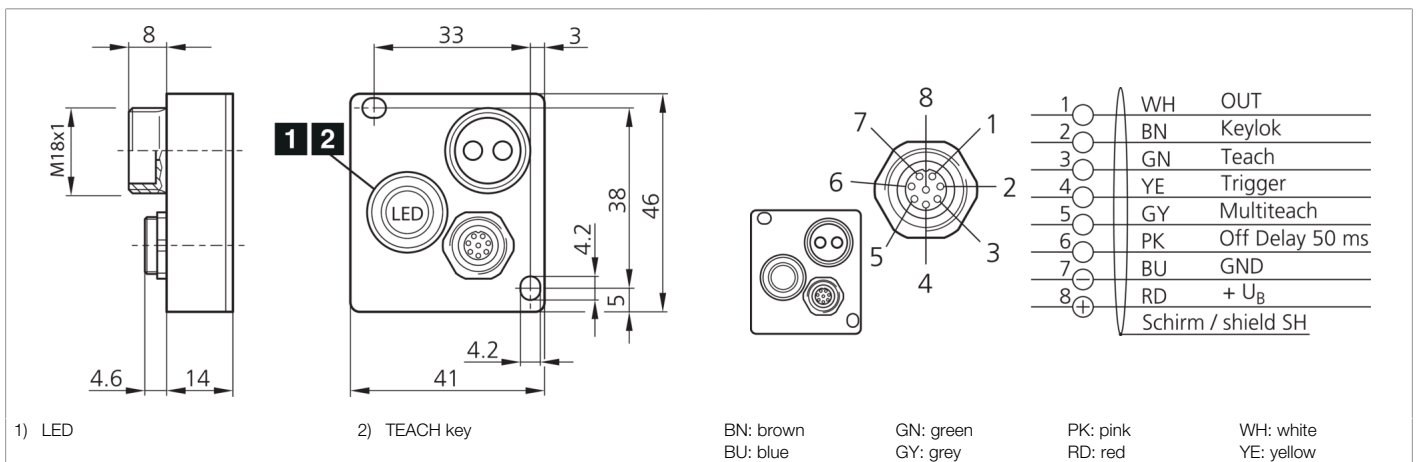


210902
FSB 10 M G1-B8
Color sensor

- Adjustable color tolerance
- Distinction of smallest shade nuances
- High ambient light compensation
- Integrated long-term stability
- Status display via LEDs
- Status display via LEDs



Function										

Technical data (typ.)	+20°C, 24 V DC
Service voltage	12 ... 28 V DC
No-load current (max.)	500 mA
Housing dimensions	41 x 46 x 14 mm
Housing length	14 mm
Housing height	46 mm
Housing width	41 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
Color memory internal	1
Number of measuring channels	1
Color channels of sensor	1 (Teachable via keys)
Scanning block	Lock (+24 V DC)
Color space mode	L*a*b* (Body colors)
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)
Trigger input	TRG (+24 V DC)
Switching output	Push-pull (1x), 200 mA, NO (pnp) / NC (npn)
Voltage drop (max.)	2 V
Interface	without



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Color sensor

Technical data (typ.)	+20°C, 24 V DC
Pulse stretching	0 ms / 50 ms (selectable)
Light source	LED
Color	White
Wavelength	420 ... 750 nm
Light spot size	Dependent on focus optics
Color resolution	DE Lab < 1
Ambient light immunity	15 kLx
Ambient light compensation	dynamic
Range	Dependent on fiber-optic cable
Switching hysteresis (max.)	10 %
Tolerance ranges	5 levels (3, 6, 9, 15, 30 ΔELab), automatic tolerance in multiteach mode
Operating elements	1
Display	LED (Integrated in the operating key)
Response time	2.0 ms
Ambient temperature during operation	-15 ... +55 °C
Protection type	IP 67
Connection	Connector, M9, 8-pin
More information / accessories	https://www.di-soric.com/210902