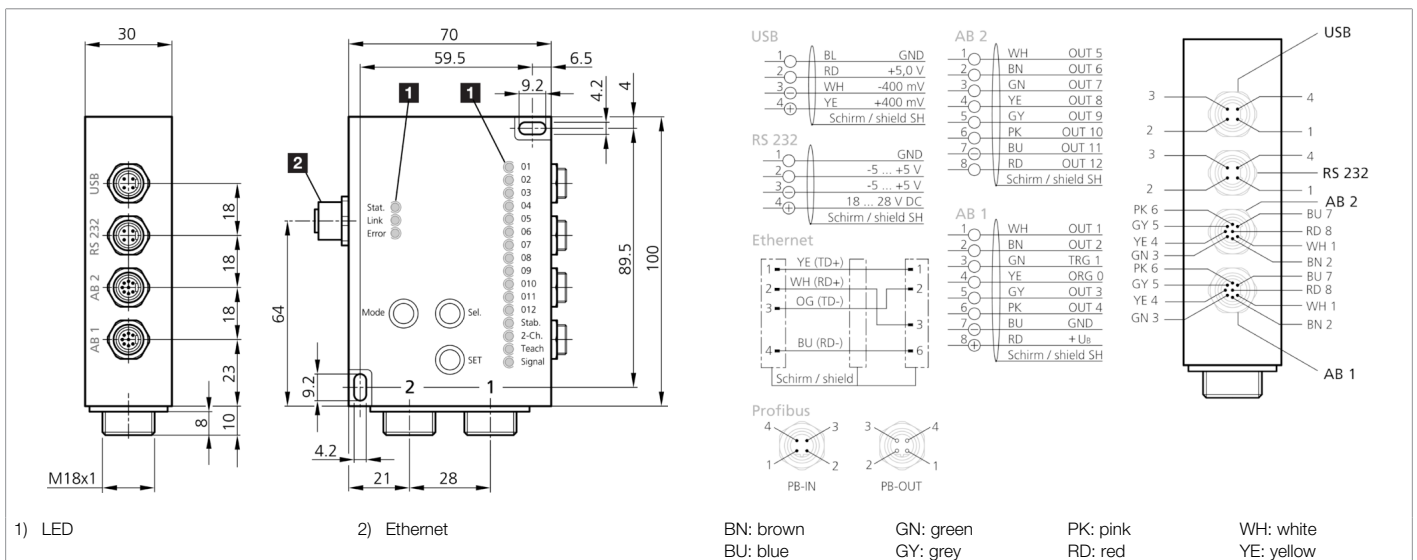




209684
FS 12-100-1 M G8-B8-E
Color sensor

- Up to 100 color channels
- Integrated long-term stability
- Distinction of smallest shade nuances
- Very short response time
- Adjustable color tolerance
- Parameterization by keys and software
- Key lock function
- High ambient light compensation
- Exportable measured values for evaluations (.csv)
- For Ethernet connection



Function										

Technical data (typ.)		+20°C, 24 V DC	
Service voltage		18 ... 28 V DC	
No-load current (max.)		500 mA	
Housing dimensions		70 x 100 x 30 mm	
Housing length		70 mm	
Housing height		100 mm	
Housing width		30 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 ■ 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"> ■ 12 (Teachable via keys) ■ 15 (Binary coding) ■ 350 (Evaluation using software, with binary coding) 	



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FS 12-100-1 M G8-B8-E

Color sensor

Technical data (typ.)	+20°C, 24 V DC
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)
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	Push-pull (12x)
Voltage drop (max.)	2 V
Interface	<ul style="list-style-type: none"> ■ Ethernet ■ RS232 ■ USB
Pulse stretching	0 ... 65.535 ms adjustable
Switching output coding	<ul style="list-style-type: none"> ■ pnp + npn (12x) ■ binary coded = 350 switching conditions (350x)
Light source	LED (can be switched off)
Color	White
Light spot size	Dependent on focus optics
Color resolution	DE Lab < 1
Ambient light compensation	can be switched off
Switching hysteresis (max.)	0 ... 255 %
Tolerance ranges	5 selectable by keys / using software
Operating elements	3
Display	LED (19x)
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)
Ambient temperature during operation	-10 ... +55 °C
Protection type	IP 54
Connection	Connector, M9, 8-pin
More information / accessories	https://www.di-soric.com/209684