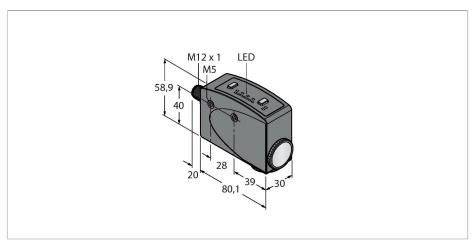


R58ECRGB1Q8 Photoelectric Sensor – Convergent Mode Sensor Color Mark Sensor



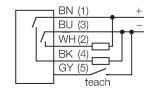
Technical data

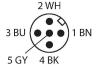
Туре	R58ECRGB1Q8
ID	3081509
Optical data	
Function	Inspection sensor
Operating mode	Contrast sensor
Light type	RGB
Focal distance	10 mm
Range	10 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
No-load current	≤ 75 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	10 kHz
Readiness delay	≤ 1000 ms
Setting option	Push Button Remote Teach
Mechanical data	
Design	Rectangular, R58
Dimensions	80.1 x 30 x 58.9 mm
Housing material	Metal, Zinc Alloy Die-Cast, Black-finished
Lens	plastic, Acrylic
Electrical connection	Connector, M12 × 1, PVC

Features

- Male M12 × 1, 5-pin
- Protection class IP67
- Programmed via 2 teach buttons
- ■8-segement LED display
- Adjustable on/off delay, 30 ms
- Automatic selection of red, green and blue light
- Parallel scan field relative to the housing axis
- Optics rotatable by 90°
- Operating voltage: 10...30 VDC
- ■PNP/NPN switching output
- Switching behavior adjustable (NO/NC)
- ■Teach input

Wiring diagram



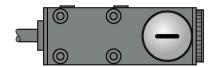


Functional principle

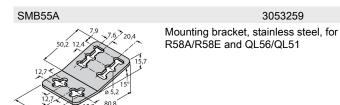
The color mark sensor differentiates between all conventional color contrasts occuring in product and material registration. From three differently colored LEDs, the device automatically selects the most appropriate one to achieve the highest contrast ratio. The very short response time of 50 µs is ideally suited for high speed applications. Adjustments such as contrast ratio, switch behaviour and time delay, can either be made directly via pushbuttons at the sensor or remotely via external teach line (gy). Furthermore, the device can be taught to differentiate between ON and OFF state, either statically before commissioning or dynamically during operation.

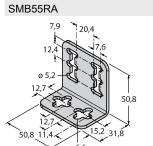
Technical data

Number of cores	5	
Ambient temperature	-10+50 °C	
Relative humidity	090 %	
Protection class	IP67	
Special features	keep/defer	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Excess gain indication	Bargraph, red	
Tests/approvals		
Approvals	CE	



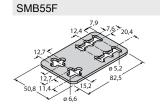
Accessories





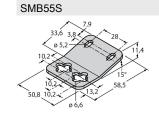
Mounting bracket, rectangular, stainless steel, for R58A/R58E and QL56/QL51

3053261



Mounting panel, stainless steel, for R58A/R58E and QL56/QL51

3053260



3053265 Mounting bracket, stainless steel, for R58A/R58E and QL56/QL51

Accessories

Dimension drawing	Туре	ID	
0 15 M12 x 1 26.5 32 	WKC4.5T-2/TEL	6625028	Connection cable, female M12, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
M12x1 o 15	RKC4.5T-2/TEL	6625016	Connection cable, female M12, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com