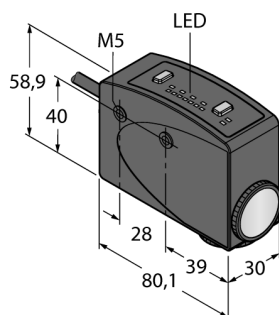


Photoelectric Sensor Color Mark Sensor With Switching Output R58BPCRGB2



- Cable, PVC, 2 m, 5-wire
- Protection class IP67
- Programmed via 2 teach buttons
- Detects extremely small differences in contrast
- Adjustable on/off delay, 30 ms
- Automatic selection of red, green and blue light
- Orthogonal scan field relative to longitudinal housing axis
- Optics rotatable by 90°
- Operating voltage: 10...30 VDC
- PNP switching output
- Switching behavior adjustable (NO/NC)
- Teach input

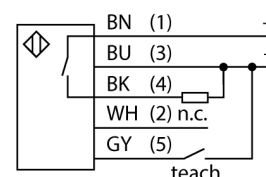
Type	R58BPCRGB2
ID	3015654

Optical data	
Function	Inspection sensor
Operating mode	Contrast sensor
Light type	RGB
Focal distance	10 mm

Electrical data	
Operating voltage U_s	10...30 VDC
Residual ripple	< 10 % U_s
DC rated operating current I_a	≤ 100 mA
No-load current I_0	≤ 75 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP
Switching frequency	10 kHz
Readiness delay	≤ 1000 ms
Setting option	Push Button Remote Teach

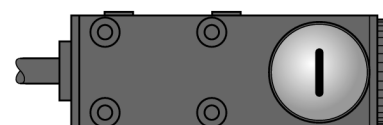
Mechanical data	
Design	Rectangular, R58
Housing material	Metal, Zinc Alloy Die-Cast, Black-finished
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.34 mm ²
Ambient temperature	-10...+55 °C
Relative humidity	0...90%
Protection class	IP67

Wiring Diagram



Functional principle

The color mark sensor differentiates between all conventional color contrasts occurring 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 push-buttons 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.



Special features	keep/defer
Power-on indication	LED, Green
Switching state	LED, Yellow
Display	8-segment
Excess gain indication	LED, red
Tests/approvals	
Approvals	CE

Accessories

Type code	Ident no.		Dimension drawing
SMB55A	3053259	Mounting bracket, stainless steel, for R58A/R58E and QL56/QL51	
SMB55RA	3053261	Mounting bracket, rectangular, stainless steel, for R58A/R58E and QL56/QL51	
SMB55F	3053260	Mounting panel, stainless steel, for R58A/R58E and QL56/QL51	
SMB55S	3053265	Mounting bracket, stainless steel, for R58A/R58E and QL56/QL51	