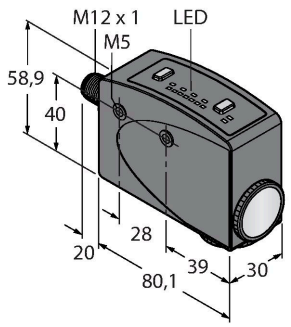
CO10-RGBS-R60-ANP6X2-H1151
Photoelectric Sensor – Convergent Mode Sensor
Color mark sensor



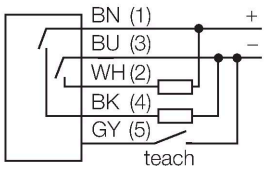
Technical data

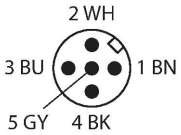
Type	CO10-RGBS-R60-ANP6X2-H1151
ID	7700056
Function	Contrast sensor
Light type	Red Green Blue
Focal distance	10 mm
Operating voltage	10…30 VDC
Residual ripple	< 10 % U_{ss}
DC rated operational current	≤ 100 mA
No-load current	≤ 75 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	10 kHz
Design	Rectangular, R58
Dimensions	80.1 x 30 x 58.9 mm
Housing material	Metal, ZN, Black-finished
Lens	plastic, Acryl
Electrical connection	Connector, M12 × 1
Number of cores	5
Ambient temperature	-10…+55 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED chain, red

Features

- Male, M12 x 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 behaviour adjustable (NO/NC)
- Teach input

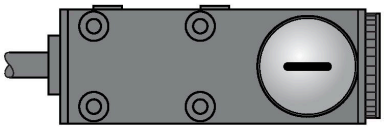
Wiring diagram





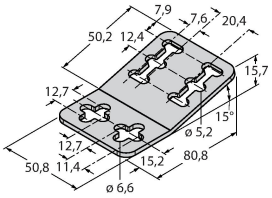
Functional principle

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, switching 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.



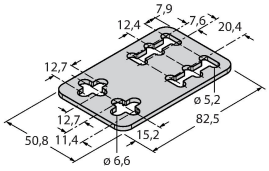
Accessories

TMBR60A	7700404



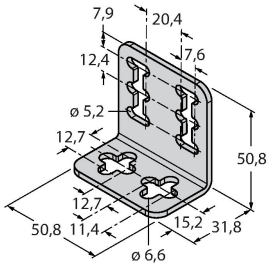
Mounting bracket, stainless steel, for CO10-…-R60-ANP…

TMBR60F	7700405



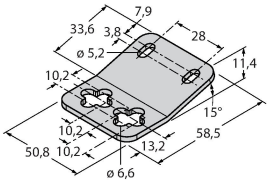
Mounting bracket, stainless steel, for CO10-…-R60-ANP…

TMBR60RA	7700406



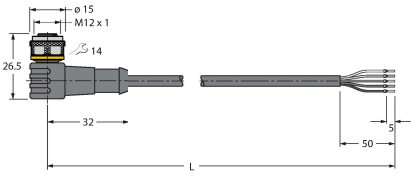
Mounting bracket, stainless steel, for CO10-…-R60-ANP…

TMBR60S	7700407



Mounting bracket, stainless steel, for CO10-…-R60-ANP…

Accessories

Dimension drawing	Type	ID	
	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
	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