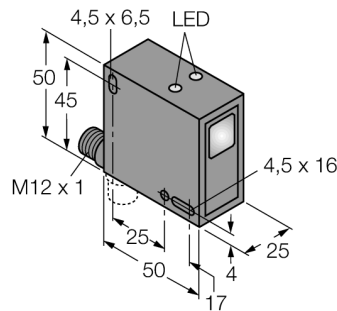


Photoelectric Sensor

Diffuse Mode Sensor

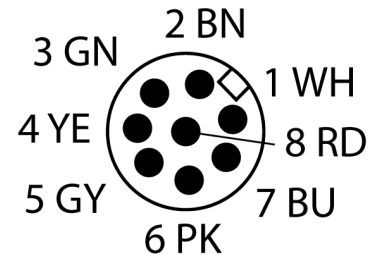
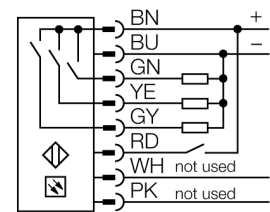
For Color Analysis

QC50A3P6XDWQ



- Male M12 × 1, 8-pin
- Connector rotatable by 90 °
- Protection class IP67
- LCD display
- Non-volatile EEPROM memory
- Response time: 335 µs
- Operating voltage: 10...30 VDC
- 3 PNP switching outputs
- Individually programmable

Wiring Diagram



Functional principle

The QC50 is a user-friendly compact colour sensor for detection of one, two or three colours, using modulated white light and electronic red, green and blue filters (R, G, B). Due to its compact size it can be easily mounted almost everywhere. The configuration options comprise a programming mode to set the colour detection parameters, as well as the setup mode for adjustment of a selectable output switch-off delay. The sensor is equipped with three transistor outputs which can be adjusted individually for colour detection or for colour plus colour intensity distinction. The sensor is equipped with two buttons (set and select) as well as with a 4-digit LCD display, an output LED and three output status LEDs (one per output).

Type	QC50A3P6XDWQ
ID	3070826
Optical data	
Function	Color sensor
Light type	White
Light spot diameter	4 mm
Range	0...20 mm
Electrical data	
Operating voltage U_s	10...30 VDC
No-load current I_o	≤ 40 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	3 x NO contact, PNP
Switching frequency	2 kHz
Readiness delay	≤ 500 ms
Response time typical	< 0.335 ms
Setting option	Push Button
Mechanical data	
Design	Rectangular, QC50
Housing material	Plastic, Thermoplastic material, Black
Lens	glass, Glass
Electrical connection	Connector, M12 × 1, PVC
Number of cores	8
Ambient temperature	-10...+55 °C
Relative humidity	0...90%
Protection class	IP67
Special features	
Switching state	keep/defer
Excess gain indication	LED, Yellow
	Single Digital Display
Tests/approvals	
Approvals	CE

Accessories

Type code	Ident no.		Dimension drawing
SMBQC50	3071679	Montagewinkel, Metall, für Sensoren der Baureihe QC50 und QCX50	