



the photoelectric specialist



QC50 Series True Colour Sensor

Wave length
White 400...700 nm
Sensing range 20 mm
Minimum spot diameter 4 mm

Supply
Supply voltage U_B 10...30 VDC
Ripple V_{pp} ≤ 2 V

Protection
reverse polarity
over-voltage
transient voltages
short-circuit of outputs
continuous overload
false pulse on power-up

Outputs
3 transistor outputs 3 PNP or 3 NPN outputs
Output rating 100 mA maximum load
Output response time 335 μ s
• Gate ON-time 335 μ s
• Gate OFF-time 170 μ s

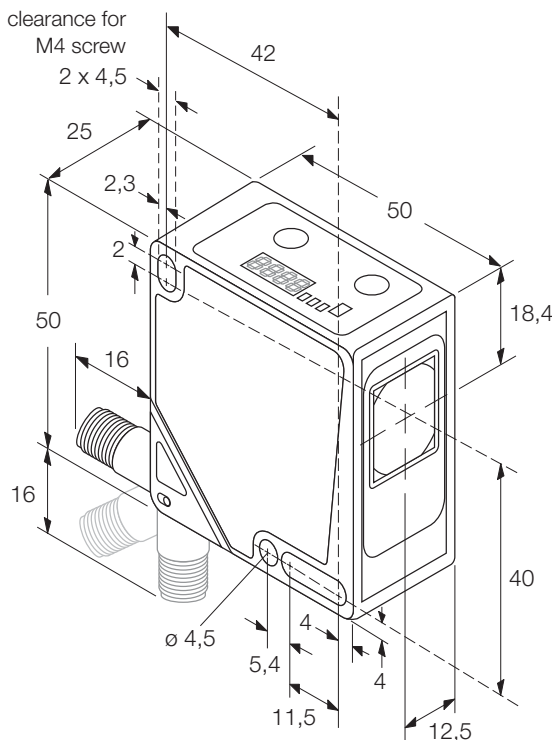
Material
Housing ABS shock-resistant
Window and lens glass
Protection class IP67
Temperature range $-10...+55$ °C
Connector 8-pin M12 x 1 swivel QD

Indicator LEDs
4-Digit LCD display
sensing mode, display info
tolerance level, channel
status
output status
channel output status

Yellow LED
Green LEDs (3)

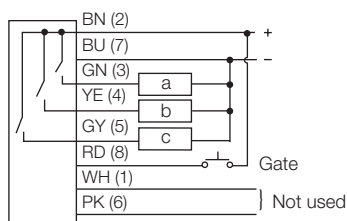
Dimensions [mm]

● Connector

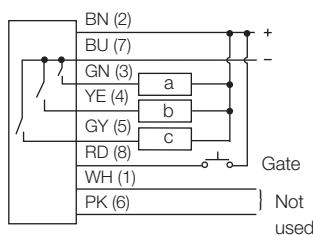


Wiring

PNP



NPN



a) output 1, b) output 2, c) output 3

Accessories

Connectors
MQDC2S-806 30 709 75 8-pin M12 x 1, straight connector with open shield

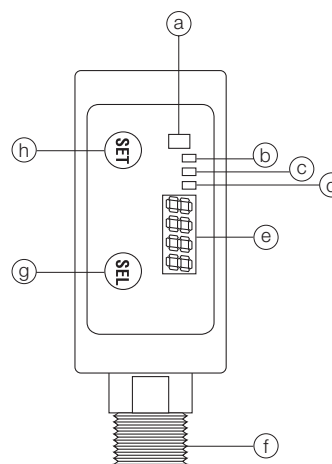
QC50 Series

True Colour Sensor

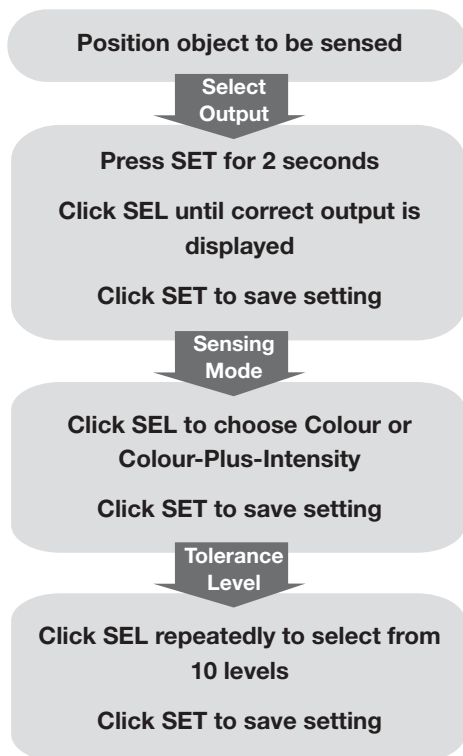
	Sensing range*	Output type	Connection	Supply Voltage	Type	Ident number
* The sensing range varies according to the sensor configuration	20 mm typ. 20 mm typ.	PNP, 3 channels NPN, 3 channels	Connector Connector	10...30 VDC 10...30 VDC	QC50A3P6XDWQ QC50A3N6XDWQ	30 708 26 30 709 02

QC50 Features

- a) Output LED
- b) Output 1 Status LED
- c) Output 2 Status LED
- d) Output 3 Status LED
- e) 4-Digit LCD Display
- f) 3-position swivel connector
- g) Select push button
- h) Set push button

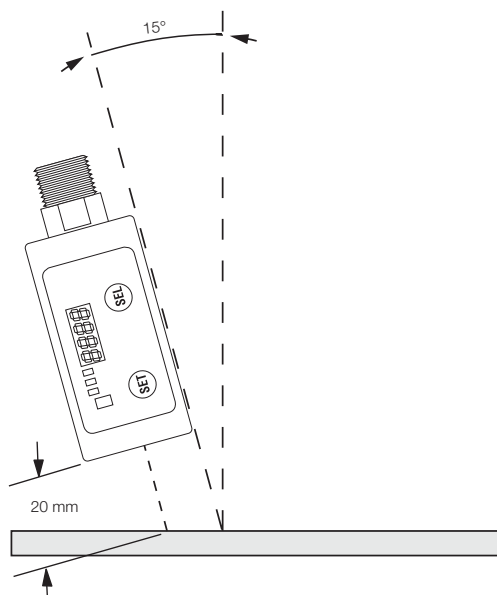


QC50 Quick Configuration Guide



Sensing of glossy surfaces

When sensing glossy surfaces, install the sensor at approximately a 15° angle with respect to the target, as shown in the drawing. The ideal sensing distance is 20 mm.



IMPORTANT SAFETY WARNING! These sensors do NOT include the self-checking redundant circuitry necessary to allow their use in personnel safety applications. A sensor failure or malfunction can result in either an energised or de-energised output condition. These products should not be used as sensing devices for personnel safety.