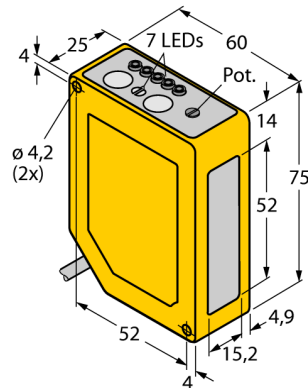


Photoelectric Sensor

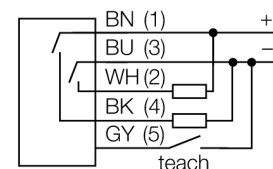
Laser Sensor, Diffuse Mode, with Adjustable Background Suppression

Q60BB6LAF1400 W/30



- Cable, PVC, 9 m
- Protection class IP67
- 5-segment LED display
- Signal indication
- Keylock
- Switch ON/OFF delay, adjustable between 8...16 ms
- Operating voltage: 10...30 VDC
- Switching output, bipolar
- Light or dark operation

Wiring Diagram

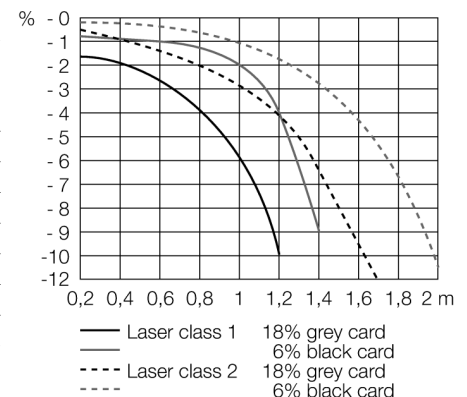


Functional principle

Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements. The target position and the photoelectric structure of the sensor determine which of the receiving elements receives the most light. The sensor electronics determine whether the reflecting object is within or outside the measuring range. The sensors come with an adjustable or fixed cut-off point.

Deviation curve

Deviation of the cut-off point of a 18 % grey or 6 % black target relative to the cut-off point of a white target



Type	Q60BB6LAF1400 W/30
ID	3071889
Optical data	
Function	Proximity switch
Operating mode	Background suppression, adjustable
Light type	Red
Wavelength	650 nm
Laser class	▲ 1
Range	200...1400 mm
Electrical data	
Operating voltage U_s	10...30 VDC
Residual ripple	< 10 % U_s
No-load current I_o	≤ 50 mA
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	≤ 250 Hz
Readiness delay	≤ 1000 ms
Response time typical	< 2 ms
Setting option	Screw Adjustment Remote Teach
Mechanical data	
Design	Rectangular, Q60
Housing material	Plastic, Thermoplastic material, Yellow
Lens	plastic, Acrylic
Electrical connection	Cable, 9 m, PVC
Number of cores	5
Core cross-section	0.5 mm ²
Ambient temperature	-10...+50 °C
Protection class	IP67

Special features	keep/defer
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED
Excess gain indication	LED, green, flashing
Tests/approvals	
MTTF	19 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus

Accessories

Type code	Ident no.		Dimension drawing
SMBAMSQ60IP	3073441	Protective housing with safety glas panel, stainless steel, for Q60	
SMBAMSQ60P	3073133	Backplane, stainless steel, for Q60 series	
SMBQ60	3067592	Mounting bracket, stainless steel, for Q60 series	