

QM42, QMT42, Q50 and Q60 series



**QM42 series
dc operation**

Wave length

IR (infrared) 880 nm
Red 660 nm

Adjustment

sensitivity

Supply

Supply voltage 10...30 V dc
Ripple V_{pp} $\leq 10\%$
No load current ≤ 30 mA
Delay upon power up 100 ms

Protection

reverse polarity
short-circuit (pulsed)

Output

Complementary light and dark operate
Continuous load current ≤ 100 mA
Overload trip point ≥ 150 mA typical at 20 °C
Switching frequency 500 Hz
2 kHz (fibre versions)

Material

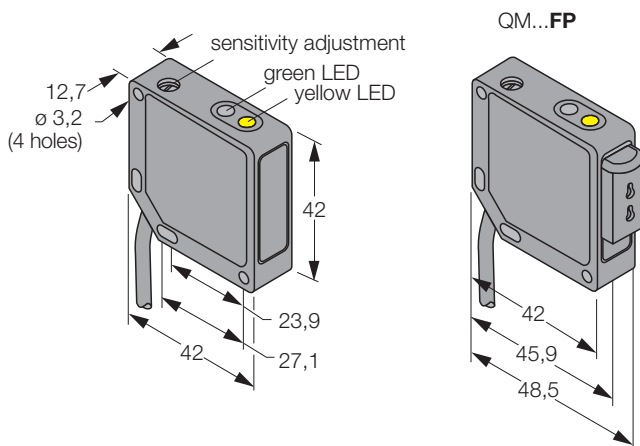
Housing zinc die-cast (black finish)
Lens acrylic
Protection class IP67
(IEC 60529/EN 60529)
Temperature range -20...+70 °C
Cable 2 m, PVC, 4 x 0,5 mm²
Connector eurocon (M12 x 1)

Indicator LED's

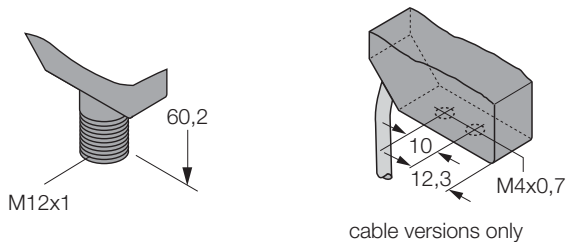
Yellow light sensed
Green supply voltage
Yellow flashing low gain
Green flashing output overload

Dimensions [mm]

● Cable



● Connector

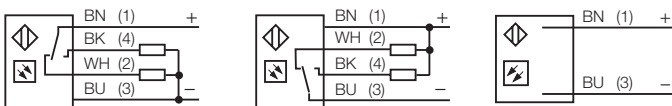


Wiring

pnp complementary

nnp complementary

emitter



Accessories

Brackets

SMB46L 30 487 47 protective bracket
SMB46S 30 487 48 protective bracket
SMB46U 30 487 46 protective bracket
SMB30SK 30 525 23 swivel mount bracket

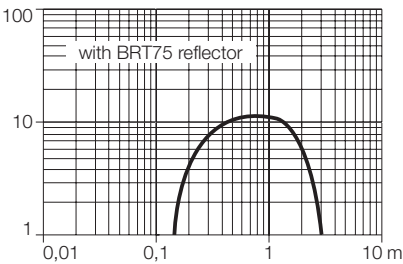
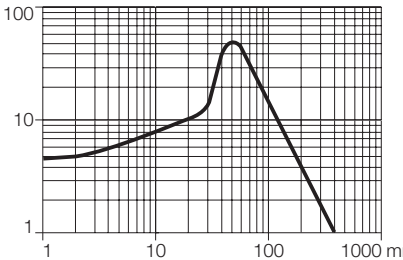
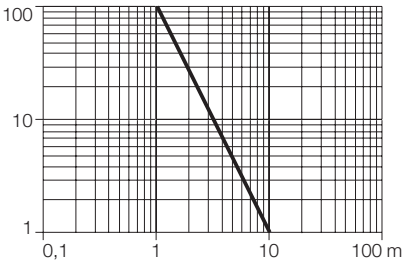
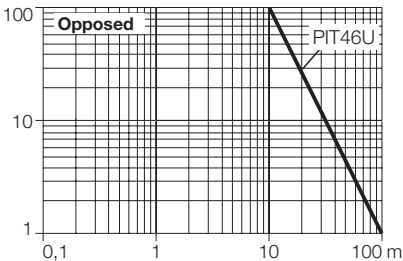
Connectors

WAK4-2/P00 80 070 46 straight type
WWAK4-2/P00 80 071 48 right-angled type

QM42 series

dc operation

Excess gain curve:
Excess gain in relation to the distance

	Max. range/Fibre type	Light source	Output function	Connection	Type	Ident number
Retro-reflective 	3 m	red	pnp	cable	<u>with polarising filter</u> QM42VP6LP	30 449 01
	3 m	red	pnp	connector	QM42VP6LPQ	30 449 03
	3 m	red	nnp	cable	QM42VN6LP	30 449 02
	3 m	red	nnp	connector	QM42VN6LPQ	30 449 04
Diffuse 	40 cm	IR	pnnp	cable	QM42VP6D	30 443 33
	40 cm	IR	pnnp	connector	QM42VP6DQ	30 443 36
	40 cm	IR	nnp	cable	QM42VN6D	30 443 38
	40 cm	IR	nnp	connector	QM42VN6DQ	30 443 40
Opposed 	10 m	IR	(emitter)	cable	QM426E	30 443 31
		IR	pnnp	cable	QM42VP6R	30 443 32
		IR	nnp	cable	QM42VN6R	30 443 37
	10 m	IR	(emitter)	connector	QM426EQ	30 443 34
		IR	pnnp	connector	QM42VP6RQ	30 443 35
		IR	nnp	connector	QM42VN6RQ	30 443 39
Fibre-optic 	plastic	red	pnnp	cable	QM42VP6FP	30 457 83
	plastic	red	pnnp	connector	QM42VP6FPQ	30 457 84
	plastic	red	nnp	cable	QM42VN6FP	30 457 85
	plastic	red	nnp	connector	QM42VN6FPQ	30 457 88

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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.