



Q25 series dc operation

Wave length

IR (infrared)	880 nm
IR (infrared)	950 nm (opposed)
Red	680 nm

Supply

Supply voltage	10...30 V dc
Ripple V_{pp}	≤ 10 %
No load current	≤ 25 mA
	≤ 20 mA (receiver)
	≤ 30 mA (polarised retro)
	≤ 35 mA (background suppression)

Delay upon power up 100 ms

Protection

reverse polarity
short-circuit (pulsed)

Output

Programmable	light and dark operate or light operate and alarm
(see wiring)	
Continuous load current	≤ 150 mA
Overload trip point	≥ 220 mA typical at 20 °C
Switching frequency	≤ 160 Hz

Material

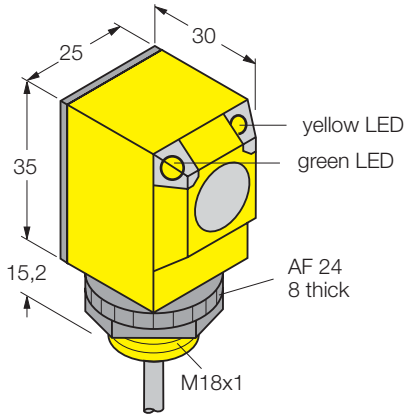
Housing	PBT
Lens	acrylic
	Lexan® (PC) (opposed)
Protection class (DIN 40050)	IP69K
Temperature range	-40...+70 °C
Cable	2 m, PVC, 4 x 0,5 mm ²
Connector	4-pin M12x1 <i>Euro-style</i>

Indicator LED's

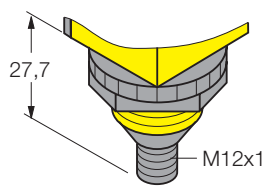
Yellow	light sensed
Green	supply voltage
Yellow flashing	low gain
Green flashing	output overload

Dimensions [mm]

● Cable

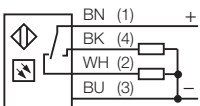


● Connector

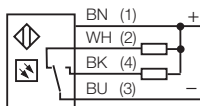


Wiring

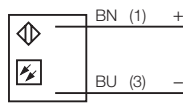
pnp complementary



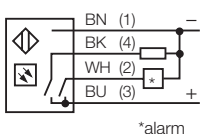
npn complementary



emitter

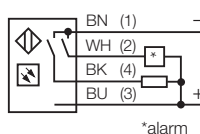


pnp light op. + alarm



*alarm

npn light op. + alarm



*alarm

Accessories

Brackets

SMB18A	34 702 00	angle bracket
SMB18Q	34 704 00	angle bracket
SMB18SF	30 525 19	swivel mount bracket
SMB18C	34 700 00	split clamp bracket

Connectors

MQDC-406	30 451 36	straight type
MQDC-406RA	30 471 04	right-angled type

Q25 series

dc operation

Excess gain curve:
Excess gain in relation to the distance

	Max. range	Light source	Output function	Connection	Type	Ident number
<p>Retro-reflective</p>	2 m 2 m 2 m 2 m	red red red red	pnp pnp npn npn	cable connector cable connector	with polarising filter Q25SP6LP Q25SP6LPQ Q25SN6LP Q25SN6LPQ	34 532 00 34 533 00 34 524 00 34 525 00
<p>Fixed-field</p>	25 mm 25 mm 50 mm 50 mm 100 mm 100 mm 25 mm 25 mm 50 mm 50 mm 100 mm 100 mm	IR IR IR IR IR IR IR IR IR IR IR IR	pnp pnp pnp pnp pnp pnp npn npn npn npn npn npn	cable connector cable connector cable connector cable connector cable connector cable connector	Q25SP6FF25 Q25SP6FF25Q Q25SP6FF50 Q25SP6FF50Q Q25SP6FF100 Q25SP6FF100Q Q25SN6FF25 Q25SN6FF25Q Q25SN6FF50 Q25SN6FF50Q Q25SN6FF100 Q25SN6FF100Q	30 584 01 30 584 09 34 530 00 34 531 00 34 528 00 34 529 00 30 584 00 30 584 08 34 522 00 34 523 00 34 520 00 34 521 00
<p>Opposed</p>	20 m 20 m	IR IR	(emitter) pnp npn (emitter) pnp npn	cable cable cable connector connector connector	Q256E Q25SP6R Q25SN6R Q256EQ Q25SP6RQ Q25SN6RQ	34 502 00 34 534 00 34 526 00 34 503 00 34 535 00 34 527 00

Subject to changes without notice • Edition 07.03 • P/N ED015



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.