



T30 series
DC operation

Wave length

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

Supply

Supply voltage	10 VDC...30 VDC
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

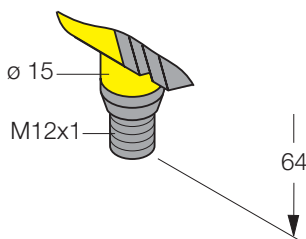
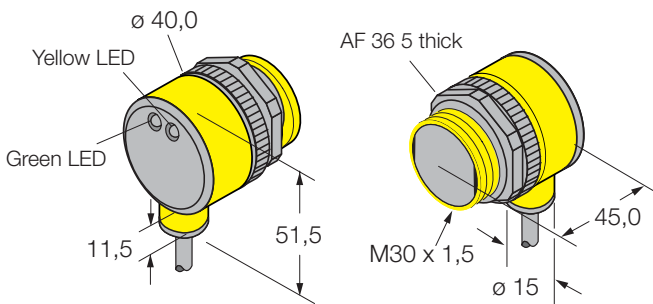
Programmable (see wiring)	Light and dark operate or light operate and alarm
Continuous load current	≤ 150 mA
Overload trip point	≥ 220 mA typical at 20 °C
Switching frequency	≤ 160 Hz

Material

Housing	PBT
Lens	Acrylic
	Opposed Mode only - Lexan® (polycarbonate)
Protection class (DIN 40050)	IP69K
Temperature range	-40 °C...+70 °C
Cable	2 m, PVC, 4 x 0,5 mm²
Connector	4-pin M12x1 Euro-style

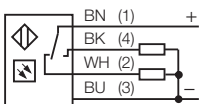
Indicator LED's

Yellow	Light sensed
Green	Supply voltage
Yellow flashing	Low gain
Green flashing	Output overload

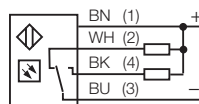


Wiring

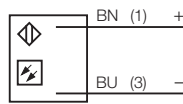
pnp complementary



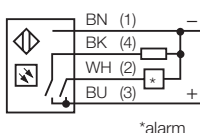
npn complementary



Emitter

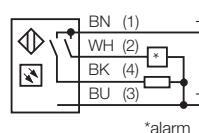


pnp light op. + alarm



*alarm

npn light op. + alarm



*alarm

Accessories

Brackets

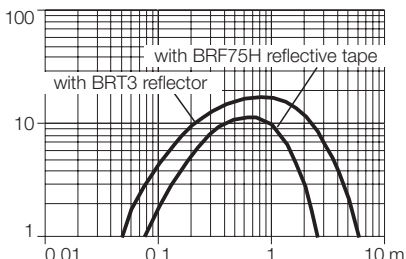
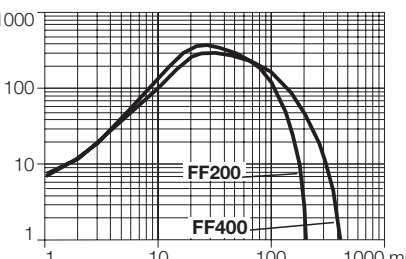
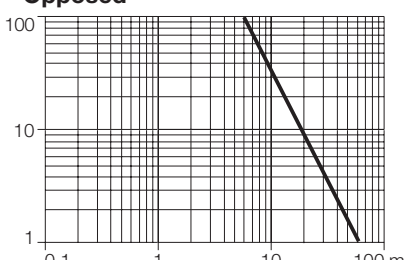
SMB30A	34 703 00	Angle bracket
SMB30SC	30 525 21	Swivel mount bracket
SMB30C	34 701 00	Split clamp bracket
SMB1815SF	30 532 79	Swivel mount bracket

Connectors

MQDC-406	30 451 36	Straight type
MQDC-406RA	30 471 04	Right-angled type

T30 series

DC operation

	Max. range					
Retro-reflective  <p>with BRF75H reflective tape</p> <p>with BRT3 reflector</p>	6 m 6 m 6 m 6 m	red red red red	pnp pnp npn npn	cable connector cable connector	with polarising filter T30SP6LP T30SP6LPQ T30SN6LP T30SN6LPQ	34 676 00 34 677 00 34 668 00 34 669 00
Fixed-field  <p>FF200</p> <p>FF400</p>	200 mm 200 mm 400 mm 400 mm 200 mm 200 mm 400 mm 400 mm	IR IR IR IR IR IR IR IR	pnp pnp pnp pnp npn npn npn npn	cable connector cable connector cable connector cable connector	T30SP6FF200 T30SP6FF200Q T30SP6FF400 T30SP6FF400Q T30SN6FF200 T30SN6FF200Q T30SN6FF400 T30SN6FF400Q	34 672 00 34 673 00 34 674 00 34 675 00 34 664 00 34 665 00 34 666 00 34 667 00
Opposed 	60 m 60 m	IR IR	(Emitter) pnp npn (Emitter) pnp npn	cable cable cable connector connector connector	T306E T30SP6R T30SN6R T306EQ T30SP6RQ T30SN6RQ	34 646 00 34 678 00 34 670 00 34 647 00 34 679 00 34 671 00

Subject to changes without notice • Edition 03.04 • P/N ED023



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.