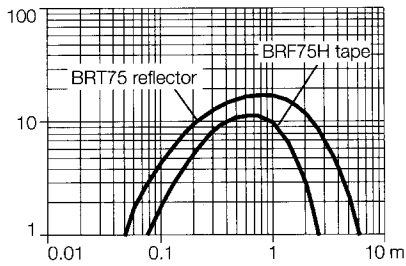


Photoelectric Sensors

T30 series DC operation

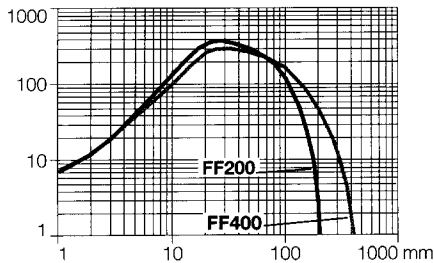
Excess gain curve:
Excess gain in relation to the distance

Retro-reflective



	Max. range	Light source	Output function	Connection	Type	Ident number
	6 m	red	pnp	cable	with polarising filter T30-SP6-LP	34 676 00✓
	6 m	red	pnp	connector	T30-SP6-LP-Q	34 677 00✓
	6 m	red	npn	cable	T30-SN6-LP	34 668 00✓
	6 m	red	npn	connector	T30-SN6-LP-Q	34 669 00✓

Fixed-field



	200 mm	IR	pnp	cable	T30-SP6-FF200	34 672 00
	200 mm	IR	pnp	connector	T30-SP6-FF200-Q	34 673 00
	400 mm	IR	pnp	cable	T30-SP6-FF400	34 674 00✓
	400 mm	IR	pnp	connector	T30-SP6-FF400-Q	34 675 00✓
	200 mm	IR	npn	cable	T30-SN6-FF200	34 664 00
	200 mm	IR	npn	connector	T30-SN6-FF200-Q	34 665 00
	400 mm	IR	npn	cable	T30-SN6-FF400	34 666 00✓
	400 mm	IR	npn	connector	T30-SN6-FF400-Q	34 667 00✓

Opposed



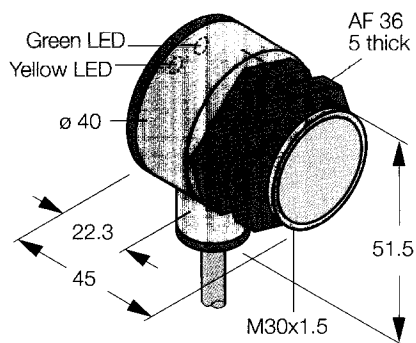
	60 m	IR	-	cable	T30-6-E	34 646 00
			pnp	cable	T30-SP6-R	34 678 00
			npn	cable	T30-SN6-R	34 670 00
	60 m	IR	-	connector	T30-6-E-Q	34 647 00
			pnp	connector	T30-SP6-R-Q	34 679 00
			npn	connector	T30-SN6-R-Q	34 671 00



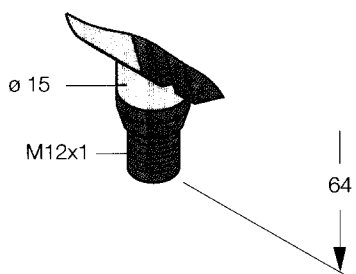
T30 series DC operation

Dimensions [mm]

• Cable

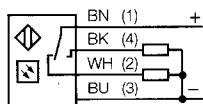


• Connector

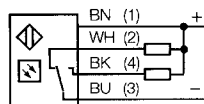


Wiring

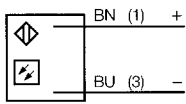
pnp complementary



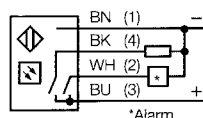
nnp complementary



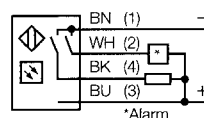
emitter



pnp light op. + alarm



nnp light op. + alarm



General data

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 (emitter)
	≤ 30 mA (polarised retro)
	≤ 35 mA (fixed-field)
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	VALOX® (PBT)
Lens	acrylic Lexan® (PC) opposed
Protection class (DIN 40 050)	IP 67
Temperature range	-40...+70 °C
Cable	2 m, PVC 4 x 0.5 mm ²
Connector	Conprox®

Indicator LED's

Yellow	light sensed
Green	power-on
Yellow flashing	low gain
Green flashing	output overload

Accessories

Brackets

SMB30A	34 703 00	angle bracket
SMB30S	38 448 00	swivel mount bracket
SMB30C	34 701 00	split clamp bracket

Connectors

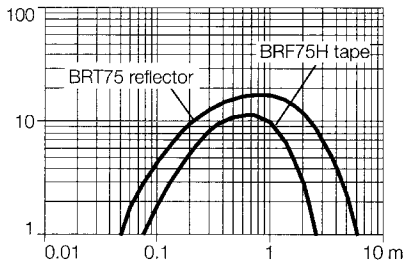
RK4.4T-2	66 332 00	straight type
WK4.4T-2	66 730 00	right-angled type

Photoelectric Sensors

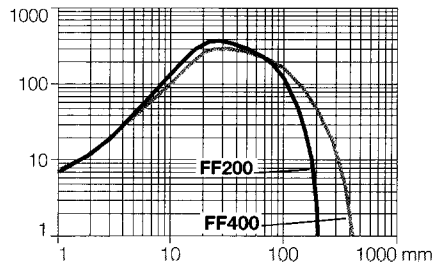
T30 series AC operation

Excess gain curve:
Excess gain in relation to the distance

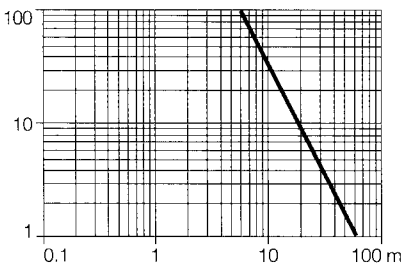
Retro-reflective



Fixed-field

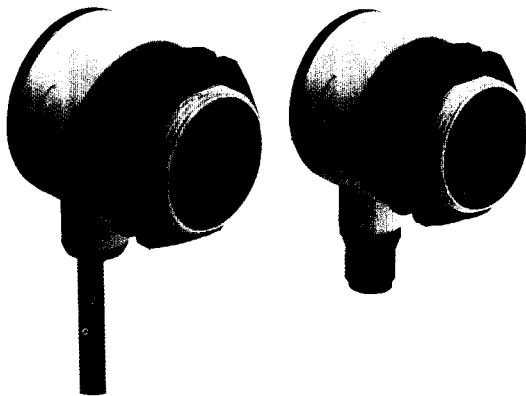


Opposed



	Max. range	Light source	Output function	Connection	Type	Ident number
Retro-reflective	6 m	red	light operate	cable	with polarising filter T30-AW3-LP	34 652 00 ✓
	6 m	red	light operate	connector	T30-AW3-LP-Q3	34 653 00 ✓
	6 m	red	dark operate	cable	T30-RW3-LP	34 660 00
	6 m	red	dark operate	connector	T30-RW3-LP-Q3	34 661 00
Fixed-field	200 mm	IR	light operate	cable	T30-AW3-FF200	34 648 00
	200 mm	IR	light operate	connector	T30-AW3-FF200-Q3	34 649 00
	400 mm	IR	light operate	cable	T30-AW3-FF400	34 650 00 ✓
	400 mm	IR	light operate	connector	T30-AW3-FF400-Q3	34 651 00 ✓
	200 mm	IR	dark operate	cable	T30-RW3-FF200	34 656 00
	200 mm	IR	dark operate	connector	T30-RW3-FF200-Q3	34 657 00
	400 mm	IR	dark operate	cable	T30-RW3-FF400	34 658 00
	400 mm	IR	dark operate	connector	T30-RW3-FF400-Q3	34 659 00
Opposed	60 m	IR	-	cable	T30-3-E	34 644 00
	60 m	IR	light operate	cable	T30-AW3-R	34 654 00
			dark operate	cable	T30-RW3-R	34 662 00
			-	connector	T30-3-E-Q3	34 645 00
			light operate	connector	T30-AW3-R-Q3	34 655 00
			dark operate	connector	T30-RW3-R-Q3	34 663 00

**T30 series
AC operation**



General data

Wave length

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

Supply

Supply voltage	20...250 V ac
Delay upon power up	100 ms

Output

AW3	light operate
RW3	dark operate
Continuous load current	≤ 300 mA
Peak current	1 A (20 ms)
Leakage current	< 0.05 mA
Voltage drop (at I _{cont})	≤ 3 V
Switching frequency	≤ 30 Hz

Material

Housing	VALOX® (PBT)
Lens	acrylic
	Lexan® (PC) opposed
Protection class (DIN 40 050)	IP 67
Temperature range	-40...+70 °C
Cable	2 m, PVC 3 x 0.5 mm ²
Connector	Conprox®

Indicator LED's

Yellow	light sensed
Green	power-on
Yellow flashing	low gain

Accessories

Brackets

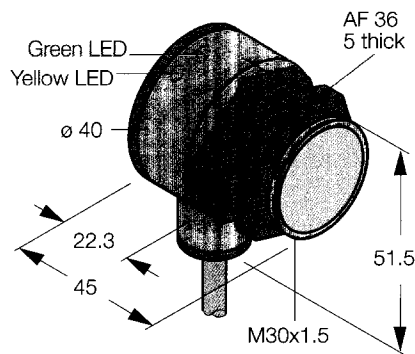
SMB30A	34 703 00	angle bracket
SMB30S	38 448 00	swivel mount bracket
SMB30C	34 701 00	split clamp bracket

Connectors

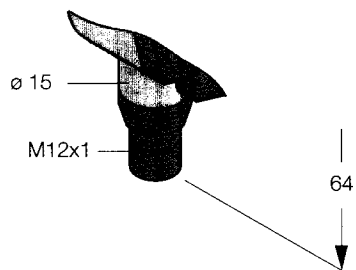
WAKW4.5T-2	69 280 02	straight type
WWAKW4.5T-2	69 280 03	right-angled type

Dimensions [mm]

• Cable

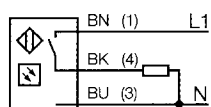


• Connector

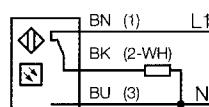


Wiring

light operate



dark operate



emitter

