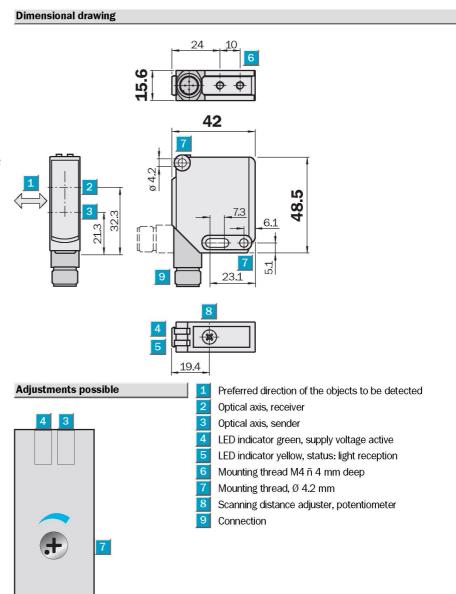


- Robust metal housing with dovetail mounting clamps
- High device availability in industrial environments; in case of ambient light, optical reflections and devices mounted opposite one another
- Range between -40 °C ... +60 °C





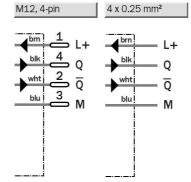
Accessories	
Connector, M12, 4-pin	
Mounting systems	



Connection type

WTB12-3N2431 WTB12-3N1131 WTB12-3P2431 WTB12-3N1231 WTB12-3P1131 WTB12-3P1231

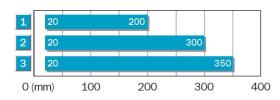




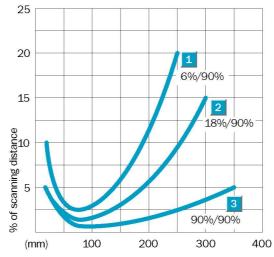
	WTB12-3	N1131 N1231 N2431 P113	31 P1231 P2431
Scanning distance typ. max.	20 350 mm ¹⁾		
Operating distance	20 350 mm ¹⁾		
Adjustment of operating distance	Potentiometer		
Light source, light type	LED, Red light, 640 nm ²⁾		
Light spot diameter	Ø 6.0 mm at 200 mm distance		
Supply voltage V _s	DC 10 30 V ³⁾		
Ripple	≤5 Vss ⁴⁾		
Power consumption	$\leq 45 \mathrm{mA}^{5)}$		
30 CONTRACTOR CONTRACT	NPN antivalent		
Switching outputs	PNP antivalent		
Oissandardhassa DND HIOLES ONS			
Signal voltage PNP HIGH/LOW	> Vs - 2.5 V/approx. 0 V		
Signal voltage NPN HIGH/LOW	Approx. Vs/< 2.5 V		
Output current l _a max	100 mA		
Response time	≤ 330 µs ⁶⁾		
Switching frequency	1,500 Hz ⁷⁾		
Connection type	Cable, PVC, 2 m ⁸⁾		
	Cable, PVC, 5 m ⁸⁾		
	Connector, M12, 4-pin		
VDE protection class	9)		
Circuit protection	Vs connections reverse-polarity protected/All outputs short-circuit protected/ Interference suppression		
Enclosure rating	IP 66, IP 67, IP 69K		
Ambient temperature operation	-40 °C +60 °C		
Ambient temperature storage	-40 °C +75 °C		
Weight	Approx. 200 g		
	Approx. 280 g		
	Approx. 120 g		
Housing material	Zinc die-cast ¹⁰⁾		
1) Object with 90 % remission (based on standard white to DIN 5033)	3) Limit values, reverse-polarity protected operation in short-circuit protected net-	ces 5) Without load	⁸⁾ Do not bend below 0 °C ⁹⁾ Reference voltage 50 V DC

²⁾ Average service life 100,000 h at Ta = +25 °C

Scanning distance







Order information			
Туре	Order no.		
WTB12-3N1131	1041418		
WTB12-3N1231	1041419		
WTB12-3N2431	1041416		
WTB12-3P1131	1041413		
WTB12-3P1231	1041415		
WTB12-3P2431	1041411		

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operation in short-circuit protected net-work max. 8 A ⁴⁾ May not exceed or fall short of Vs toleran-

⁵⁾ Without load 6) Signal transit time with resistive load 7) With light/dark ratio 1:1

⁹⁾ Reference voltage 50 V DC ¹⁰⁾ Teflon-coated housing available on request