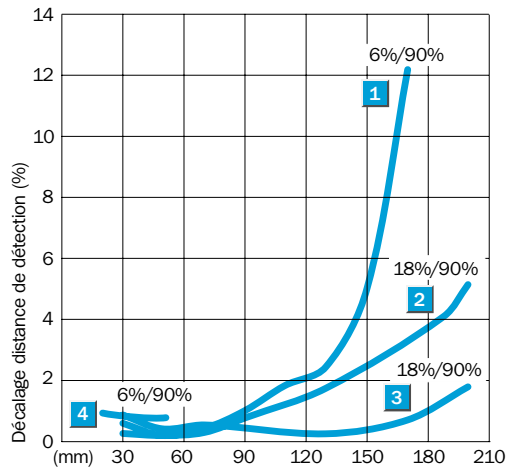
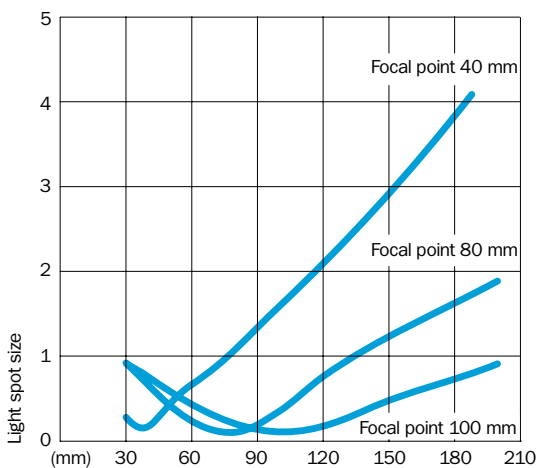


Technical data	WT 12L-2	B510	B530	B540	B550						
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Scanning distance, adjustable	30...200 mm, 18 % remission										
	Focus 45 mm										
	Focus 80 mm										
	Focus 100 mm										
Scanning range, fixed, 6 % remission	20... 50 mm, focus 45 mm										
Light source¹⁾	Laser 650 nm, pulsed										
Light spot diameter focal point	0.1 mm										
	0.2 mm										
Supply voltage V_S	10...30 V DC ²⁾										
Ripple ³⁾	$\leq 5 V_{SS}$										
Current consumption ⁴⁾	≤ 55 mA										
Switching output Q_N and Q_P	PNP, NPN										
Signal voltage HIGH	$V_S - < 2$ V, V_S										
Signal voltage LOW ⁵⁾	0 V, ≤ 1.5 V										
Output current I_A max.	100 mA										
Operating mode	Light- or dark-switching ⁶⁾										
Control input L/D	0 V or open, light-switching										
Control input L/D	V_S , dark-switching										
Response time max. ⁷⁾	Typ. 200 μ s										
Max. switching frequency ⁸⁾	2500/s										
Laser class	2 (IEC 825-1; EN 60825-1:97)										
VDE protection class⁹⁾	<input type="checkbox"/>										
Enclosure rating	IP 67										
Circuit protection¹⁰⁾	A, B, C										
Ambient temperature T_A	Operation - 10 °C...+ 50 °C										
	Storage - 25 °C...+ 75 °C										
Connection type	M 12 plug, 5-pin										
Weight	Approx. 130 g with plug										

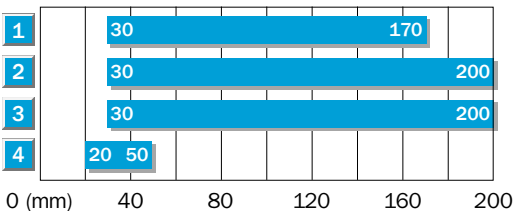
- | | | | | |
|---|---|--|--|---|
| 1) Average service life 50,000 h at $T_A = + 25$ °C | 3) May not exceed or fall short of V_S tolerances | 6) Reversible via control input L/D | 7) Signal transit time with resistive load | 7) A = V_S connections reverse-polarity protected |
| 2) Limit values | 4) Without load | 7) Signal transit time with resistive load | 8) At light/dark ratio 1:1 | B = Outputs protected against short-circuiting |
| | 5) At $T_A = + 25$ °C and 100 mA output current | 8) At light/dark ratio 1:1 | 9) Reference voltage 50 V DC | C = Interference pulse suppression |

Scanning distance and light spot size



Order information

Type	Part no.
WT 12L-2B 510	1 017 959
WT 12L-2B 530	1 018 250
WT 12L-2B 540	1 018 251
WT 12L-2B 550	1 017 904



- | | |
|---|--|
| 1 | Scanning distance on black, 6 % remission |
| 2 | Scanning distance on grey, 18 % remission |
| 3 | Scanning distance on white, 90 % remission |
| 4 | Scanning distance on black, 6 % remission, fixed |

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[5M](#) [E3X-DA41-S-M1J 0.3M](#) [E3X-DAB6](#) [E3X-DAG8](#) [E3ZM-B86](#)