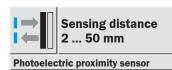




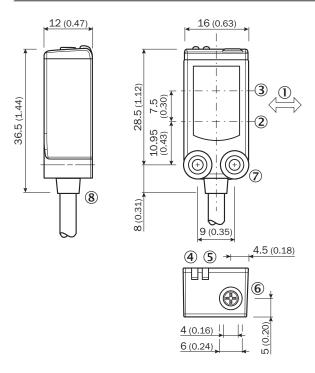
WTV4-3 with BGS, V-Optic and IR light



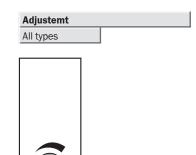
- Designed to detect deep black objects according to a high-power IR LED
- Reliable background suppression
- IR light means no influence to vision systems
- Best detection of low remission objects < 1 % in 15 to 20 mm



Dimensional drawing



All dimensions in mm (inch)

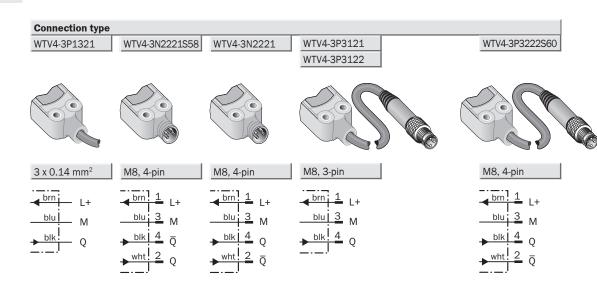


6

- 1 Standard direction of the material being scanned
- 2 Optical axis, sender
- 3 Optical axis, receiver
- 4 LED-indicator yellow, status of receiving light beam
- (5) LED-indicator green, power-on
- (6) Potentiometer 5 turns or teach-in button
- M3 threaded metal mounting hole
- Connector/cable/cable connector

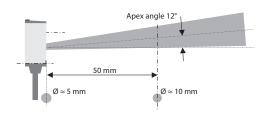






Technical data	WTV4-3	P3121 P1321 P3222860 N2221858 I	N2221 P3122
Maximum sensing distance	70 mm		
Typ. operating distance	2 50 mm		
Adjustable of operating distance	5 70 mm		
Pre-adjusted	25 mm		
Adjustment of operating distance	Potentiometer 5 resolutions		
Aujustinent of operating distance	Teach-in button		
Light source, light type 1)	Pin-Point-LED, IR light 880 nm		
Light spot dimensions	Approx. Ø 7 mm in 50 mm		
Supply voltage V _e	10 30 V DC ²⁾		
Ripple 3)			
Power consumption 4)	< 5 V _{ss} ≤ 30 mA		
Switching output	PNP, light switching		_
	PNP, complementary output NPN, complementary output		
	NPN, complementary output inverted		
Output current I, max.	< 100 mA		
Response time ⁵⁾	< 0.5 ms		
Switching frequency, max. ⁶⁾	1000/s		
	2 m cable, PVC 7), 3 wire		
Connection type	100 mm cable with plug M8, 3-pin		
	100 mm cable with plug M8, 4-pin		_
Circuit protection 8)	Housing connector M8, 4-pin A, B, C		
Enclosure rating	IP 66, IP 67		
Ambient temperature operation	-40 °C +60 °C		
Ambient temperature operation Ambient temperature storage	-40 °C +75 °C		
Housing material	ABS		
 Average service life 100,000 h at T_U = +25 °C Limit values 	 May not exceed or fall short V_s Without load Signal transit time with resistive load 	 With light/dark ratio 1:1 Do not bend below 0 °C 	 A = V_S reverse polarity protected B = Outputs short-circuit protected C = Interference pulse suppression

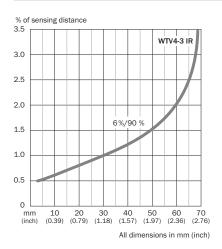
Optical characteristic



th light/dark ratio 1:1	8) A = V _s reverse polarity protecte
not bend below 0 °C	B = Outputs short-circuit prote

Ordering information **Model name** Part no. WTV4-3P3121 1042191 WTV4-3P1321 1029888 WTV4-3P3222S60 1052426 WTV4-3N2221S58 1051471 WTV4-3N2221 1048995 WTV4-3P3122 1046411

Sensing distance



SICK at a glance



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