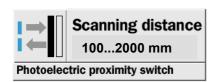
SICK

Photoelectric proximity switches

Infrared light

WT24-2Exi



- Marking:
 - II 2G EEx ia IIC T4 according to Directive 94/9/EC (ATEX)
- According to category 2G
- Switching output: EN60947-5-6 (NAMUR)
- Background suppression can be set very precisely
- Infrared light
- Plug rotatable by 90°

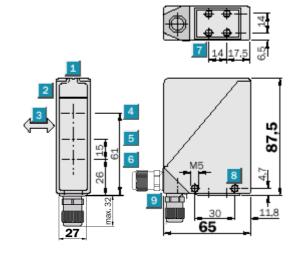






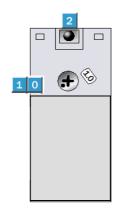


Dimensional drawing



Adjustment possible

WT24-2X260 WT24-2X460



- Alignment sight
- 2 LED signal strength indicator
- 3 Standard direction of the material being scanned
- 4 Middle of optic axis, snder
- 5 Middle of optic axis, receiver at close range
- 6 Middle of optic axis, receiver at long range
- 7 M5 threaded mounting hole
- 8 Sensitivity adjustment
- 9 M16 screw fixing or M12 plug, rotatable by 90°
- 10 Scanning distance adjuster

Connection types

WT24-2X260

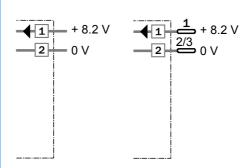
WT24-2X460





M16, terminals

4-pin, M12



Technical Data	WT24-2	X260	X460
		I	
Scanning distance	1002000 mm, adjustable		
Light source 1) , light type	LED; infared light		
Light spot diameter	Approx. 50 mm at 2000 mm		
Supply voltage U _s 2)	DC 8.2 V (R _i approx. 1 kOhm) (5V13.5 V) ³⁾		
Ripple ⁴⁾	0.4 V _{SS}		
EC-type examination certificate	PTB 03 ATEX 2105		
Explosion protection	Type of protection "Intrinsic safety"		
Input voltage U _{i,} max.	15.5 V		
Input current Ii, max.	53 mA		
Input power P _{i,} max.	100 mW		
Internal capacity C _{i,} max.	80 nF		
Internal inductivity L _{i,} max.	negligible small (≈ 0 μH)		
Ambient temperature T _A	Operation: – 20 °C < T _A < + 60 °C		
Output / current consumption	Control current dependent on switching state		
	to EN 60947-5-6 (NAMUR)		ı
Object is detected	≥ 2.2 mA		
Object is not detected	≤ 1 mA		
Switching mode	Light-switching		
Response time ⁵⁾	≤ 10 ms		
Max. switching frequency 6)	50/s		
Connection types	Plug		
3,000	Terminal connection		
VDE protection class 7)			
Circuit protection 8)	A, C		
Enclosure rating	IP 67		
Ambient temperature T _A	Storage: - 25 °C + 70 °C		
Weight	Approx. 330 g		
Housing material	Zinc die-cast housing		

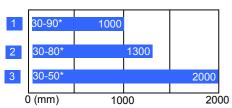
⁴⁾ May not exceed or fall short of V_S tolerances ⁷⁾ Reference voltage DC 50 V ⁵⁾ Signal transit time with resistive load ⁸⁾ A = V_S connections reverse-5) Signal transit time with resistive load

A = V_S connections reverse-polarity

C = Interference pulse suppression

Ex
3) Limit values

Scanning distance	Order information		
	Туре	Part No.	
	WT24-X260	1 025 684	
	WT24-X460	1 025 683	



* lower bound of detection area depending on the adjusted scanning distance

Scanning distance on black, 6 % Scanning distance on grey, 18 % Scanning distance on white, 90 %

