



PowerProx

The new home of sensing range

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.

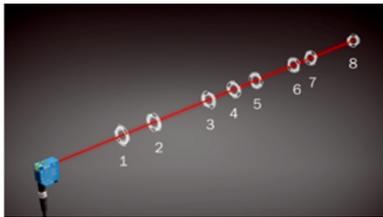
Advantages



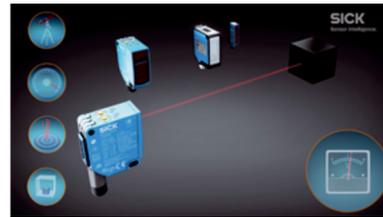
Large sensing range in a small housing

The PowerProx detects large areas at a maximum distance of up to 4 m. The sensors are resistant to background reflections and therefore offer maximum reliability. In addition, the compact housing makes the PowerProx a space-saving detection solution for large distances.

Complete monitoring with the most advanced time-of-flight technology



Distance values with millimeter precision and up to eight switching points are available for the automation process via IO-Link



The PowerProx also delivers analog distance data for precise control in mounting technology



The ideal solution for space-saving use in grippers and robotic elements



Top performance for occupied bay and clearance detection thanks to IO-Link and up to eight switching points



High performance even in tight spaces: Perfect for compact AGV applications



Safe detection: Even at large distances and with ambient light exposure, the PowerProx detects objects reliably.



Exact detection results in any position

More power isn't possible: The PowerProx achieves outstanding detection results thanks to excellent optics and beam paths. Extreme angles and changing object surfaces are also no problem. The receiver elements of the photoelectric sensor are resistant to background reflections and ambient light.



Ideal for use in mounting technology thanks to precise detection and distance measurement



Reliable quality control thanks to high repeatability - even if the surface quality changes



Very high precision: The PowerProx delivers reliable detection results even with jet-black, glossy or changing object surfaces as well as very small and flat objects



Adapted specialists for any application

Everything under one "roof": With the PowerProx, high-precision time-of-flight technology is now available for a wide spectrum of applications for the first time. The reliable detection of very small objects, fast processes or detection over large sensing ranges is no problem for the PowerProx. Corresponding variants offer maximum detection reliability for objects with strongly reflective surfaces. And when space is tight, the very compact WTT2SL and WTT4SL variants ensure maximum performance in a miniature format.



Precisely detects the smallest objects, pockets or recesses



Quick signal processing and high switching frequency for quick processes



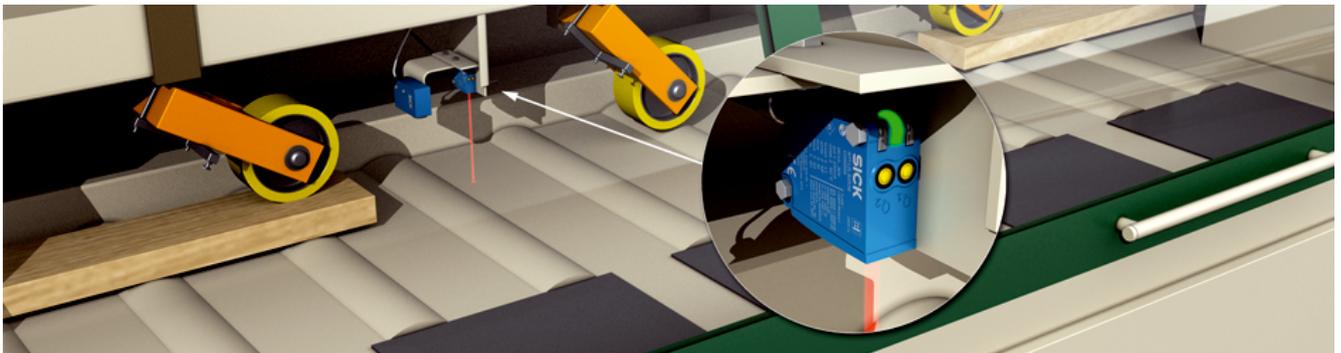
With an up to 4 m sensing range, the PowerProx keeps a close eye on even far-away objects



Maximum flexibility: The PowerProx has the right sensor solution for any range of applications, no matter whether very fast, accurate detection or detection at large sensing ranges is required

Reliable detection at high speeds

Processes are getting faster and faster in countless industries. The high switching frequency and quick signal processing of the PowerProx enables powerful detection even at high tempos. In doing so, the photoelectric sensor laser beam detects even high-gloss or jet-black objects at large detection angles.



Reliable edge detection in high speed applications due to switching frequencies of up to 1,000 Hz and the high-precision laser beam



Very fast tempo: The PowerProx reliably detects objects and edges with nearly no delay, even at high process speeds in production and logistics.



Technical data overview

Dimensions (W x H x D)	20 mm x 49.6 mm x 44.2 mm 17.6 mm x 46.5 mm x 34.1 mm 17.4 mm x 45.6 mm x 34.7 mm 12.2 mm x 41.8 mm x 17.3 mm 7.7 mm x 27.5 mm x 13.5 mm 23.5 mm x 76 mm x 55.8 mm
Sensing range max.	50 mm ... 3,800 mm ¹⁾ 50 mm ... 2,200 mm ²⁾ 50 mm ... 2,200 mm ³⁾ 200 mm ... 4,000 mm ⁴⁾ 200 mm ... 3,000 mm ⁵⁾ 200 mm ... 18,000 mm ⁶⁾
Light source	Laser
Type of light	Visible red light / Infrared light (depending on type)
Enclosure rating	IP67
Housing material	Plastic VISTAL® Plastic ABS Plastic MABS ABS
Adjustment	Potentiometer, 4 turns 1 x Potentiometer, 4 turns 2 x Single teach-in button 1 x Single teach-in button ⁷⁾ Single teach-in button 2 x Single teach-in button (2 x) IO-Link Cable SOPAS Engineering Tool Single teach-in button (4 x) Display Local user interface with display and button (2 x) Single teach-in button Single teach-in button ⁸⁾ Potentiometer 1 x Potentiometer 2 x

¹⁾ Object with 6 ... 90 % remission (based on standard white to DIN 5033).

²⁾ Object with 15 ... 90 % remission (based on standard white to DIN 5033).

³⁾ For distances ≤ 1,800 mm at object with 6 ... 90 % remission. For distances > 1,800 mm at object with 15 ... 90 % remission (based on standard white to DIN 5033).

⁴⁾ Object with 90 % reflectance (referred to standard white, DIN 5033).

⁵⁾ Objects to be sensed with 6 % reflectivity (based on black).

⁶⁾ Reflector P250.

⁷⁾ Teach-Offset -30 mm.

⁸⁾ Teach-Offset 15 mm.

Product description

PowerProx MultiTask photoelectric sensors combine powerful time-of-flight technology with compact sensor housings, giving machine designers maximum flexibility. They reliably detect objects that are traveling at high speed, small and flat objects, and jet-black or shiny objects at sensing ranges between 5 cm and 4 m, including at large detection angles. The WTT2SL, WTT4SL, WT-T12L, WTT190L and WTT280L variants of the photoelectric sensors are designed to meet different requirements and provide the ideal solution to overcome any challenge.

At a glance

- Time-of-flight technology
- Laser class 1, red and infrared light
- Sensing range: 5 cm to 4 m
- Very small background range: 6 mm
- Switching frequencies of up to 1,000 Hz
- The option of up to three adjustable digital outputs or one IO-Link analog output: for up to eight switching points, distance value and smart sensor functionality

Your benefits

- Reliable object detection over long sensing ranges and at large detection angles
- Precise, simple adjustment using a potentiometer, teach-in button or display
- Excellent functionality with IO-Link
- The rugged VISTAL® sensor housing ensures high availability and a long service life
- Suitable for a wide range of applications: the variants of the photoelectric sensors are designed to cover a variety of detection requirements
- Compact sensors allow for significant flexibility in machine design

Fields of application

- Empty bay and clearance detection
- Rapid counting in the packaging industry
- Precise edge detection in the timber industry
- Quality control for the automotive industry and its parts suppliers
- Handling and assembly
- Loop control
- Protecting doors and gates
- Suitable for use on industrial vehicles, including AGVs

Ordering information

Other models and accessories → www.sick.com/PowerProx

- **Sub product family:** PowerProx Distance
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 3,800 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q, /Q	Light/dark switching	Push-pull: PNP/NPN	Visible red light	Potentiometer	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3561	1072614
						Cable, 5-wire, 2 m ¹⁾	WTT12L-B1561	1072608
						Male connector M12, 5-pin	WTT12L-B2561	1072611
					Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3562	1072640
						Cable, 5-wire, 2 m ¹⁾	WTT12L-B1562	1072634
							WTT12L-B1564	1094007

¹⁾ Do not bend below 0 °C.

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.	
	Q ₁ , Q ₂	Light switching	Push-pull: PNP/NPN	Infrared light		Male connector M12, 5-pin	WTT12L-B2562	1072637	
					Cable, Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3564S18	1108354	
				Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-B2593	1091984	
						Potentiometer	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3566	1072622
							WTT12L-B3568	1072631	
						Cable, 5-wire, 2 m ¹⁾	WTT12L-B1566	1072617	
							WTT12L-B1568	1072625	
						Male connector M12, 5-pin	WTT12L-B2566	1072619	
					WTT12L-B2568		1072628		
					Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3563	1072648	
							WTT12LC-B3563	1090607	
							WTT12L-B3567	1072657	
						Cable, 5-wire, 2 m ¹⁾	WTT12L-B1563	1072643	
							WTT12L-B1567	1072651	
							Male connector M12, 5-pin	WTT12L-B2563	1072645
					WTT12L-B2567	1072654			
					WTT12L-B2567S13	1100200			
					Cable, Teach-in button	Cable, 5-wire, 2 m ¹⁾	WTT12LC-B1563	1103602	
							Male connector M12, 5-pin	WTT12LC-B2563	1072532
						WTT12LC-B2563S11		1098031	
WTT12LC-B2563S12	1098032								
WTT12LC-B2563S15	1103345								
WTT12LC-B2563S21	1108976								
4 mA ... 20 mA / 0 V ... 10 V / switchable	Q ₁	Light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-A2563	1082474	

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Speed
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 2,500 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q, /Q	Light/dark switching	Push-pull: PNP/NPN	Visible red light	Potentiometer	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3531	1072612

¹⁾ Do not bend below 0 °C.

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.						
						Cable, 5-wire, 2 m ¹⁾	WTT12L-B1531	1072606						
						Male connector M12, 5-pin	WTT12L-B2531	1072609						
						Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3532	1072638					
							Cable, 5-wire, 2 m ¹⁾	WTT12L-B1532	1072632					
						Male connector M12, 5-pin	WTT12L-B2532	1072635						
					Q ₁ , Q ₂	Light switching	Push-pull: PNP/NPN	Infrared light	Teach-in button	Male connector M12, 5-pin	WTT12L-B2573	1091987		
										Visible red light	Potentiometer	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3536	1072620
												Cable, 5-wire, 2 m ¹⁾	WTT12L-B1536	1072615
												Male connector M12, 5-pin	WTT12L-B2536	1072618
												WTT12L-B2538	1072626	
	Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3533	1072646										
		Cable, 5-wire, 2 m ¹⁾	WTT12L-B1533	1072641										
		Male connector M12, 5-pin	WTT12L-B2533	1072531										
		WTT12L-B2537	1072652											
		Cable, Teach-in button	Cable with plug M12, 5-pin, 348 mm	WTT12LC-B3533				1124550						
	Male connector M12, 5-pin		WTT12LC-B2533	1072658										
	4 mA ... 20 mA / 0 V ... 10 V / switchable	Q ₁	Light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-A2533	1082472					

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Speed
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 75 mm ... 1,300 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q ₁ , Q ₂	Light switching	Push-pull: PNP/NPN	Visible red light	Cable, Teach-in button	Male connector M12, 5-pin	WTT12LC-B2533S02	1080611

- **Sub product family:** PowerProx Precision
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 1,800 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q, /Q	Light/dark switching	Push-pull: PNP/NPN	Visible red light	Potentiometer	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3541	1072613
						Cable, 5-wire, 2 m ¹⁾	WTT12L-B1541	1072607

¹⁾ Do not bend below 0 °C.

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.				
						Male connector M12, 5-pin	WTT12L-B2541	1072610				
						Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3542	1072639			
							Cable, 5-wire, 2 m ¹⁾	WTT12L-B1542	1072633			
							Male connector M12, 5-pin	WTT12L-B2542	1072636			
	Q ₁ , Q ₂	Light switching	Push-pull: PNP/NPN	Infrared light	Teach-in button	Male connector M12, 5-pin	WTT12L-B2583	1091989				
						Visible red light	Potentiometer	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3546	1072621		
				Cable, 5-wire, 2 m ¹⁾	WTT12L-B1546			1072616				
				Male connector M12, 5-pin	WTT12L-B2546			1072530				
				Cable, 5-wire, 2 m ¹⁾	WTT12L-B1548		1072624					
				Male connector M12, 5-pin	WTT12L-B2548		1072627					
				Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾		WTT12L-B3543	1072647				
					Cable, 5-wire, 2 m ¹⁾	WTT12L-B1543	1072642					
					Male connector M12, 5-pin	WTT12L-B2543	1072644					
					Male connector M12, 5-pin	WTT12L-B2547	1072653					
				Cable, Teach-in button	Male connector M12, 5-pin	WTT12LC-B2543	1072659					
					Male connector M12, 5-pin	WTT12LC-B2543B01	1091309					
					Male connector M12, 5-pin	WTT12LC-B2543S23	1115431					
				4 mA ... 20 mA / 0 V ... 10 V / switchable	Q ₁	Light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-A3543	1095504
										Male connector M12, 5-pin	WTT12L-A2543	1082473
										Male connector M12, 5-pin	WTT12L-A2543S09	1093543

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Small
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 200 mm ... 2,500 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q ₁	Light/dark switching	NPN	Visible red light	Potentiometer	Cable, 4-wire, 2 m ¹⁾	WTT190L-N1131	6055960
						Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT190L-N3531	6055961
						Male connector M8, 4-pin	WTT190L-N2231	6055959
			PNP			Cable, 4-wire, 2 m ¹⁾	WTT190L-P1131	6055954
						Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT190L-P3531	6055955
						Male connector M8, 4-pin	WTT190L-P2231	6055953
	Q ₁ , Q ₂	Light/dark switching	NPN	Visible red light	Potentiometer	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT190L-N3536	6055964
						Cable, 5-wire, 2 m ¹⁾	WTT190L-N1536	6055963
						Male connector M8, 4-pin	WTT190L-N2236	6055962
			PNP			Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT190L-P3536	6055958
						Cable, 5-wire, 2 m ¹⁾	WTT190L-P1536	6055957
						Male connector M8, 4-pin	WTT190L-P2236	6055956

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Small
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 200 mm ... 3,000 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.	
-	Q ₁ , Q ₂	Light/dark switching	PNP, NPN	Visible red light	Teach-in button	Male connector M8, 4-pin	WTT190L-K2233	6062141	
			Push-pull: PNP/NPN			Male connector M8, 4-pin	WTT190LC-B2233A00	6067745	
	Q ₁ , Q ₂ , Q ₃	Light/dark switching	PNP, NPN	Visible red light	Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT190L-K3534	6062143	
						Cable, 5-wire, 2 m ¹⁾	WTT190L-K1534	6062142	
	4 mA ... 20 mA / 0 V ... 10 V / switchable	Q ₁	Light/dark switching	PNP, NPN	Visible red light	Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT190L-A3532	6062146
							Cable, 5-wire, 2 m ¹⁾	WTT190L-A1532	6062145
Male connector M8, 4-pin							WTT190L-A2232	6062144	

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Distance Shiny
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 2,200 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q, /Q	Light/dark switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-B2502S06	1090895
	Q ₁ , Q ₂	Light switching	Push-pull: PNP/NPN			Male connector M12, 5-pin	WTT12L-B2503S05	1088544
						Cable, Teach-in button	Male connector M12, 5-pin	WTT12LC-B2553S25

- **Sub product family:** PowerProx Distance Shiny
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 1,800 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q ₁ , Q ₂	Light switching	Push-pull: PNP/NPN	Visible red light	Potentiometer	Male connector M12, 5-pin	WTT12L-B2556	1082418
					Teach-in button	Male connector M12, 5-pin	WTT12L-B2553	1082415
							WTT12L-B2553S28	1121743
Cable, Teach-in button	Male connector M12, 5-pin	WTT12LC-B2553	1082412					
		4 mA ... 20 mA / 0 V ... 10 V / switchable	Q ₁	Light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin

- **Sub product family:** PowerProx Speed Shiny
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 1,600 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q ₁ , Q ₂	Light switching	Push-pull: PNP/NPN	Visible red light	Potentiometer	Male connector M12, 5-pin	WTT12L-B2516	1082420
					Teach-in button	Male connector M12, 5-pin	WTT12L-B2513	1082416
							Cable, Teach-in button	Male connector M12, 5-pin
4 mA ... 20 mA / 0 V ... 10 V / switchable	Q ₁	Light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-A2513	1082476

- **Sub product family:** PowerProx Precision Shiny
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 1,400 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q, /Q	Light/dark switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-B2522	1085283
	Q ₁ , Q ₂	Light switching	Push-pull: PNP/NPN	Visible red light	Potentiometer	Male connector M12, 5-pin	WTT12L-B2526	1082419
					Teach-in button	Male connector M12, 5-pin	WTT12L-B2523	1082417
					Cable, Teach-in button	Male connector M12, 5-pin	WTT12LC-B2523	1082414
4 mA ... 20 mA / 0 V ... 10 V / switchable	Q ₁	Light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-A2523	1082477

- **Sub product family:** PowerProx Mini Distance
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 1,300 mm

Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Dark/light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button, cable	Cable with M12 male connector, 4-pin, 1,547 mm	WTT4SLC-3B0062B03	1118144
				Cable with M12 male connector, 4-pin, 197 mm	WTT4SLC-3B3462A00	1111828
				Cable with M12 male connector, 4-pin, 300 mm	WTT4SLC-3B0062B04	1118244
				Cable with M8 male connector, 4-pin, 120 mm	WTT4SLC-3B3262A00	1097220
					WTT4SLC-3B3262B05	1120525
				Cable with M8 male connector, 4-pin, 65 mm	WTT4SLC-3B0062B02	1111161
				Cable, 4-wire, 2 m	WTT4SLC-3B1162A00	1097191
				Male connector M8, 4-pin	WTT4SLC-3B2262B01	1106949
Light/dark switching	Push-pull: PNP/NPN	Visible red light	Teach-in button, cable	Male connector M8, 4-pin	WTT4SLC-3B2262A00	1097190

- **Sub product family:** PowerProx Mini Speed
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 1,000 mm

Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Dark/light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button, cable	Cable with M12 male connector, 4-pin, 197 mm	WTT4SLC-3B3432A00	1111829
				Cable with M8 male connector, 4-pin, 120 mm	WTT4SLC-3B3232A00	1097222
				Cable, 4-wire, 2 m	WTT4SLC-3B1132A00	1096613
Light/dark switching	Push-pull: PNP/NPN	Visible red light	Teach-in button, cable	Male connector M8, 4-pin	WTT4SLC-3B2232A00	1095755

- **Sub product family:** PowerProx Micro
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 50 mm ... 800 mm

Analog output	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Dark switching	PNP	Infrared light	Teach-in button	Cable with JST-connector, 350 mm ¹⁾	WTT2SL-2F3092S07	1112129
					Cable with JST-connector, 550 mm ¹⁾	WTT2SL-2F3092S08	1112130
	Light/dark switching	NPN	Infrared light	Teach-in button	Cable with M12 male connector, 4-pin ¹⁾	WTT2SL-2N3492S02	1102712
					Cable, 4-wire, 2 m ¹⁾	WTT2SL-2N1192	1085601
		PNP	Infrared light	Teach-in button	Cable with JST-connector, 300 mm ¹⁾	WTT2SLC-2P3092B03	1102568
					Cable with JST-connector, 350 mm ¹⁾	WTT2SL-2F3092S11	1123713
					Cable with M12 male connector, 4-pin, 300 mm ¹⁾	WTT2SL-2P3492S01	1088393
					Cable with M8 male connector, 4-pin, 200 mm ¹⁾	WTT2SLC-2P3292A00	1090486
						WTT2SL-2P3292	1085602
					Cable with M8 male connector, 4-pin, 90 mm ¹⁾	WTT2SLC-2P3292B02	1101641
	Cable, 4-wire, 2 m ¹⁾	WTT2SL-2P1192	1081626				

¹⁾ Do not bend below 0 °C.

- **Sub product family:** WTT280L-2 Long Range
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Sensing range max.:** 200 mm ... 4,000 mm (Einstellbar.),, 200 mm ... 3,000 mm (Einstellbar.)

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q ₁	Light/dark switching	NPN	Visible red light	Potentiometer	Cable, 5-wire, 2 m ¹⁾	WTT280L-2N1531	6048067
						Male connector M12, 5-pin	WTT280L-2N2531	6048063
			PNP	Visible red light	Potentiometer	Cable, 5-wire, 2 m ¹⁾	WTT280L-2P1531	6048065
						Male connector M12, 5-pin	WTT280L-2P2531	6048061
	Q ₁ , Q ₂	Light/dark switching	NPN	Visible red light	Potentiometer	Cable, 5-wire, 2 m ¹⁾	WTT280L-2N1536	6048068
						Male connector M12, 5-pin	WTT280L-2N2536	6048064
			PNP	Visible red light	Potentiometer	Cable, 5-wire, 2 m ¹⁾	WTT280L-2P1536	6048066
						Male connector M12, 5-pin	WTT280L-2P2536	6048062

¹⁾ Do not bend below 0 °C.

- **Sub product family:** WTT280L-2 Long Range
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression, Optical time-of-flight
- **Sensing range max.:** 200 mm ... 18,000 mm (Einstellbar.),, 200 mm ... 18,000 mm

Analog output	Number of switching outputs (type)	Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
-	Q ₁ , Q ₂	Light/dark switching	NPN	Visible red light	Potentiometer	Cable, 5-wire, 2 m ¹⁾	WLT280L-2N1536	6048072
						Male connector M12, 5-pin	WLT280L-2N2536	6048070
			PNP	Visible red light	Potentiometer	Cable, 5-wire, 2 m ¹⁾	WLT280L-2P1536	6048071
						Male connector M12, 5-pin	WLT280L-2P2536	6048069

¹⁾ Do not bend below 0 °C.

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

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