



PowerProx

The new home of sensing range

SICK
Sensor Intelligence.

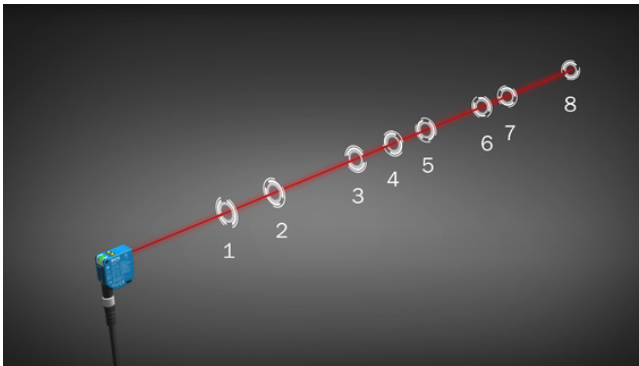
Advantages



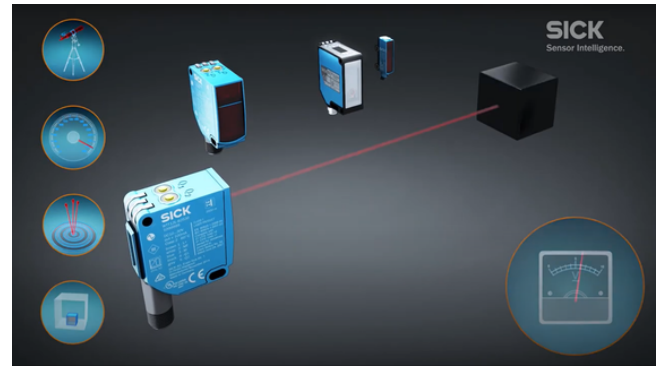
Large sensing range in a small housing

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.

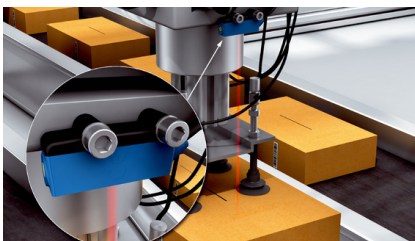
Complete monitoring with the most advanced time-of-flight technology



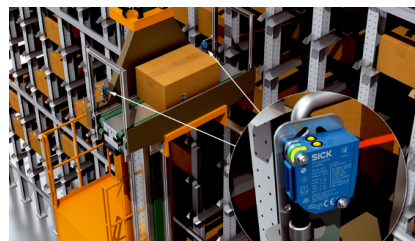
Distance values with millimeter precision and up to eight switching points are available for the automation process via IO-Link



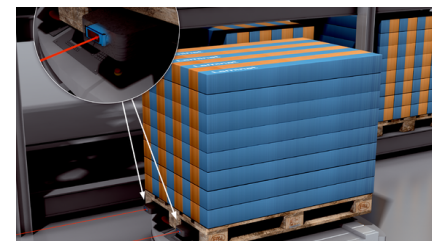
The PowerProx also delivers analog distance data for precise control in mounting technology



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



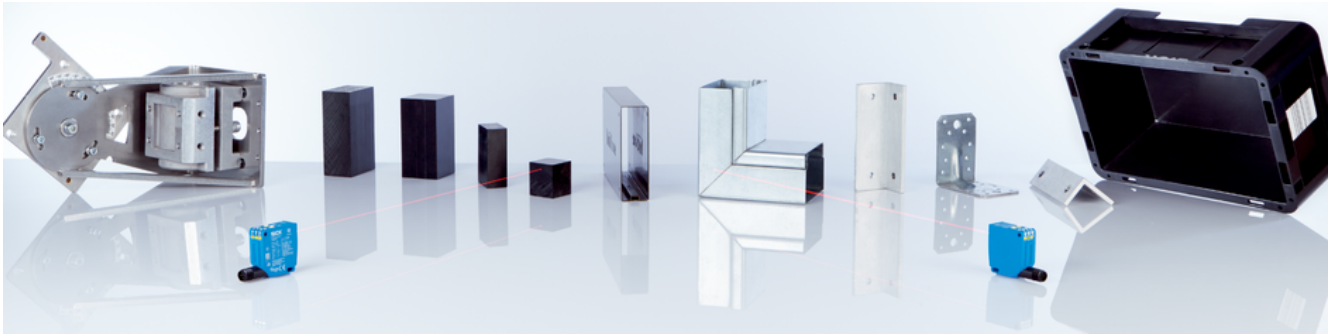
Top performance for occupied bay and clearance detection thanks to IO-Link and up to eight switching points



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



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

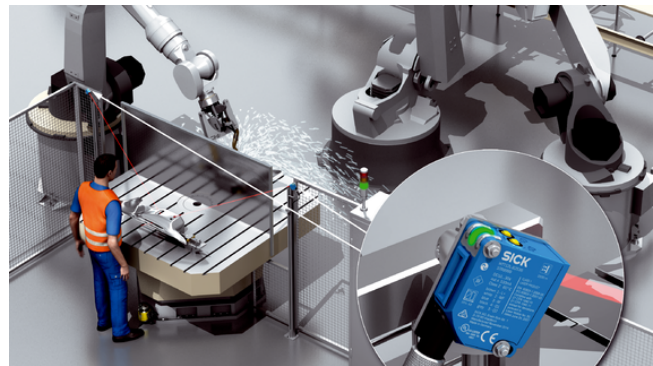


Exact detection results in any position

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



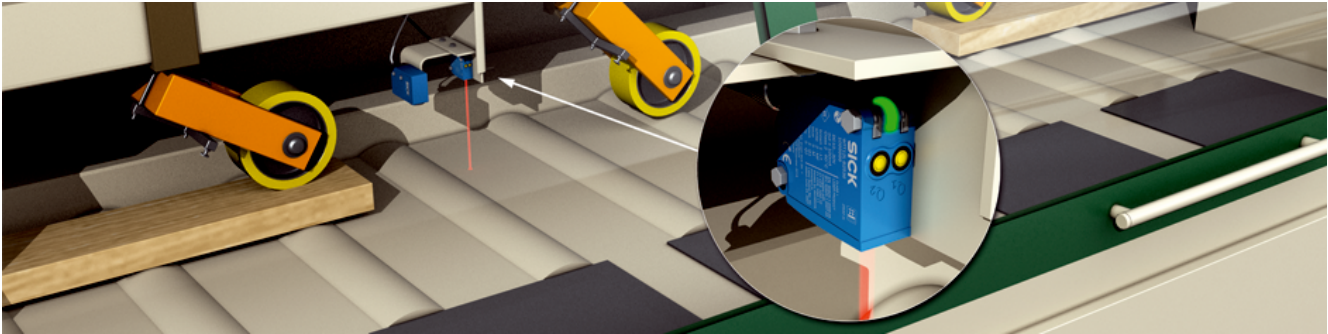
With an up to 4 m sensing range, the PowerProx keeps a close eye on even far-away objects



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.



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
Functional principle detail	Absence of reference object or reference surface Object between sensor and reference object or reference surface Background suppression Optical time-of-flight (depending on type)
Light source	Laser
Type of light	Visible red light / Infrared light (depending on type)
Enclosure rating	IP67
Housing material	Plastic
Adjustment	Teach-in button Potentiometer Cable (depending on type)

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, WTT12-S, 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

- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Absence of reference object or reference surface

Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12S-C2569	1136898

- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Object between sensor and reference object or reference surface

Switching mode	Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Light switching	Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12S-M2569	1136647

- **Sub product family:** PowerProx Distance
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q, /Q
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Sensing range max.:** 50 mm ... 3,800 mm
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light

Adjustment	Connection type	Type	Part no.
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-B1564	1094007
		WTT12L-B1562	1072634
	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

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Distance
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁, Q₂
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 3,800 mm
- **Switching output:** push-pull: PNP/NPN

Type of light	Adjustment	Connection type	Type	Part no.
Infrared light	Teach-in button	Male connector M12, 5-pin	WTT12L-B2593	1091984
Visible red light	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-B2567S13		1100200	
	WTT12L-B2567		1072654	
	Cable, Teach-in button	Cable, 5-wire, 2 m ¹⁾	WTT12LC-B1563	1103602
			Male connector M12, 5-pin	WTT12LC-B2563S11
		WTT12LC-B2563S12		1098032
		WTT12LC-B2563S15		1103345
		WTT12LC-B2563S21	1108976	
	WTT12LC-B2563	1072532		

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Distance
- **Analog output:** 4 mA ... 20 mA / 0 V ... 10 V / switchable
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 3,800 mm
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light
- **Adjustment:** Teach-in button

Connection type	Type	Part no.
Cable, 5-wire, 2 m ¹⁾	WTT12L-A1563	1128481
Male connector M12, 5-pin	WTT12L-A2563	1082474
	WTT12L-A2563S29	1124065

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Speed
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q, /Q
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Sensing range max.:** 50 mm ... 2,500 mm
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light

Adjustment	Connection type	Type	Part no.
Potentiometer	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3531	1072612
	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

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Speed
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁, Q₂
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Switching output:** push-pull: PNP/NPN

Sensing range max.	Type of light	Adjustment	Connection type	Type	Part no.		
50 mm ... 2,500 mm	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
	Visible red light	Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	Cable, 5-wire, 2 m ¹⁾	WTT12L-B3538	1072629	
				Male connector M12, 5-pin	WTT12L-B1536	1072615	
				Male connector M12, 5-pin	WTT12L-B2536	1072618	
				Male connector M12, 5-pin	WTT12L-B2538	1072626	
				Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3537	1072655	
				Cable, 5-wire, 2 m ¹⁾	WTT12L-B1533	1072641	
				WTT12L-B1537	1072649		
				Male connector M12, 5-pin	WTT12L-B2533	1072531	
				Male connector M12, 5-pin	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	
				75 mm ... 1,300 mm	Visible red light	Cable, Teach-in button	Male connector M12, 5-pin

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Speed
- **Analog output:** 4 mA ... 20 mA / 0 V ... 10 V / switchable
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 2,500 mm

Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-A2533	1082472

- **Sub product family:** PowerProx Precision
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q, /Q
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Sensing range max.:** 50 mm ... 1,800 mm
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light

Adjustment	Connection type	Type	Part no.
Potentiometer	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3541	1072613
	Cable, 5-wire, 2 m ¹⁾	WTT12L-B1541	1072607
	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

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Precision
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁, Q₂
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 1,800 mm
- **Switching output:** push-pull: PNP/NPN

Type of light	Adjustment	Connection type	Type	Part no.
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
			WTT12L-B3548	1072630
		Cable, 5-wire, 2 m ¹⁾	WTT12L-B1546	1072616
			WTT12L-B1548	1072624
		Male connector M12, 5-pin	WTT12L-B2546	1072530
			WTT12L-B2548	1072627
	Teach-in button	Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-B3543	1072647
			WTT12L-B3547	1072656
		Cable, 5-wire, 2 m ¹⁾	WTT12L-B1543	1072642
			WTT12L-B1547	1072650
		Male connector M12, 5-pin	WTT12L-B2543	1072644
			WTT12L-B2547	1072653
	Cable, Teach-in button	Male connector M12, 5-pin	WTT12LC-B2543B01	1091309
			WTT12LC-B2543S23	1115431
			WTT12LC-B2543	1072659

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Precision
- **Analog output:** 4 mA ... 20 mA / 0 V ... 10 V / switchable
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 1,800 mm
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light
- **Adjustment:** Teach-in button

Connection type	Type	Part no.
Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT12L-A3543	1095504
Male connector M12, 5-pin	WTT12L-A2543	1082473
	WTT12L-A2543S09	1093543

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Small
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Sensing range max.:** 200 mm ... 2,500 mm
- **Type of light:** visible red light
- **Adjustment:** Potentiometer

Switching output	Connection type	Type	Part no.
NPN	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

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Small
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁, Q₂
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
200 mm ... 2,500 mm	NPN	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	Potentiometer	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
200 mm ... 3,000 mm	PNP, NPN	Teach-in button	Male connector M8, 4-pin	WTT190L-K2233	6062141
	Push-pull: PNP/NPN	Teach-in button	Male connector M8, 4-pin	WTT190LC-B2233A00	6067745

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Small
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁, Q₂, Q₃
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Sensing range max.:** 200 mm ... 3,000 mm
- **Switching output:** PNP, NPN
- **Type of light:** visible red light
- **Adjustment:** Teach-in button

Connection type	Type	Part no.
Cable with plug M12, 5-pin, 0.3 m ¹⁾	WTT190L-K3534	6062143
Cable, 5-wire, 2 m ¹⁾	WTT190L-K1534	6062142

¹⁾ Do not bend below 0 °C.

- **Sub product family:** PowerProx Small
- **Analog output:** 4 mA ... 20 mA / 0 V ... 10 V / switchable
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Sensing range max.:** 200 mm ... 3,000 mm
- **Switching output:** PNP, NPN
- **Type of light:** visible red light
- **Adjustment:** Teach-in button

Connection type	Type	Part no.
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
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q, /Q
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Sensing range max.:** 50 mm ... 2,200 mm

Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-B2502S06	1090895

- **Sub product family:** PowerProx Distance Shiny
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁, Q₂
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light
- **Connection type:** male connector M12, 5-pin

Sensing range max.	Adjustment	Type	Part no.
50 mm ... 1,800 mm	Potentiometer	WTT12L-B2556	1082418
	Teach-in button	WTT12L-B2553	1082415
		WTT12L-B2553S28	1121743
	Cable, Teach-in button	WTT12LC-B2553	1082412
50 mm ... 2,200 mm	Teach-in button	WTT12L-B2503S05	1088544
	Cable, Teach-in button	WTT12LC-B2553S25	1117934

- **Sub product family:** PowerProx Distance Shiny
- **Analog output:** 4 mA ... 20 mA / 0 V ... 10 V / switchable
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 1,800 mm

Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-A2553	1082475

- **Sub product family:** PowerProx Speed Shiny
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁, Q₂
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 1,600 mm
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light
- **Connection type:** male connector M12, 5-pin

Adjustment	Type	Part no.
Potentiometer	WTT12L-B2516	1082420
Teach-in button	WTT12L-B2513	1082416
Cable, Teach-in button	WTT12LC-B2513	1082413

- **Sub product family:** PowerProx Speed Shiny
- **Analog output:** 4 mA ... 20 mA / 0 V ... 10 V / switchable
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 1,600 mm

Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-A2513	1082476

- **Sub product family:** PowerProx Precision Shiny
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q, /Q
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Sensing range max.:** 50 mm ... 1,400 mm

Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-B2522	1085283

- **Sub product family:** PowerProx Precision Shiny
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁, Q₂
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 1,400 mm
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light
- **Connection type:** male connector M12, 5-pin

Adjustment	Type	Part no.
Potentiometer	WTT12L-B2526	1082419
Teach-in button	WTT12L-B2523	1082417
Cable, Teach-in button	WTT12LC-B2523	1082414

- **Sub product family:** PowerProx Precision Shiny
- **Analog output:** 4 mA ... 20 mA / 0 V ... 10 V / switchable
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light switching
- **Sensing range max.:** 50 mm ... 1,400 mm

Switching output	Type of light	Adjustment	Connection type	Type	Part no.
Push-pull: PNP/NPN	Visible red light	Teach-in button	Male connector M12, 5-pin	WTT12L-A2523	1082477

- **Sub product family:** PowerProx Mini Distance
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Sensing range max.:** 50 mm ... 1,300 mm
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light
- **Adjustment:** Teach-in button, cable

Switching mode	Connection type	Type	Part no.
Dark/light switching	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	Male connector M8, 4-pin	WTT4SLC-3B2262A00	1097190

- **Sub product family:** PowerProx Mini Speed
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Sensing range max.:** 50 mm ... 1,000 mm
- **Switching output:** push-pull: PNP/NPN
- **Type of light:** visible red light
- **Adjustment:** Teach-in button, cable

Switching mode	Connection type	Type	Part no.
Dark/light switching	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	Male connector M8, 4-pin	WTT4SLC-3B2232A00	1095755
		WTT4SLC-3B2232B07	1133895

- **Sub product family:** PowerProx Micro
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Sensing range max.:** 50 mm ... 800 mm
- **Type of light:** Infrared light
- **Adjustment:** Teach-in button

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	PNP	Cable with JST-connector, 350 mm ¹⁾	WTT2SL-2F3092S07	1112129
		Cable with JST-connector, 550 mm ¹⁾	WTT2SL-2F3092S08	1112130
Light/dark switching	NPN	Cable with M12 male connector, 4-pin ¹⁾	WTT2SL-2N3492S02	1102712
		Cable, 4-wire, 2 m ¹⁾	WTT2SL-2N1192	1085601
	PNP	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⁾	WTT2SL-2P3292	1085602
			WTT2SLC-2P3292A00	1090486
		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
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Sensing range max.:** 200 mm ... 4,000 mm (Einstellbar.),, 200 mm ... 3,000 mm (Einstellbar.)
- **Type of light:** visible red light
- **Adjustment:** Potentiometer

Switching output	Connection type	Type	Part no.
NPN	Cable, 5-wire, 2 m ¹⁾	WTT280L-2N1531	6048067
	Male connector M12, 5-pin	WTT280L-2N2531	6048063
PNP	Cable, 5-wire, 2 m ¹⁾	WTT280L-2P1531	6048065
	Male connector M12, 5-pin	WTT280L-2P2531	6048061

¹⁾ Do not bend below 0 °C.

- **Sub product family:** WTT280L-2 Long Range
- **Analog output:** -
- **Functional principle:** Photoelectric proximity sensor
- **Number of switching outputs (type):** Q₁, Q₂
- **Functional principle detail:** Background suppression, Optical time-of-flight
- **Switching mode:** Light/dark switching
- **Type of light:** visible red light
- **Adjustment:** Potentiometer

Sensing range max.	Switching output	Connection type	Type	Part no.
200 mm ... 18,000 mm ¹⁾ 200 mm ... 18,000 mm	NPN	Cable, 5-wire, 2 m ²⁾	WLT280L-2N1536	6048072
		Male connector M12, 5-pin	WLT280L-2N2536	6048070
	PNP	Cable, 5-wire, 2 m ²⁾	WLT280L-2P1536	6048071
		Male connector M12, 5-pin	WLT280L-2P2536	6048069
200 mm ... 4,000 mm ¹⁾ 200 mm ... 3,000 mm ¹⁾	NPN	Cable, 5-wire, 2 m ²⁾	WTT280L-2N1536	6048068
		Male connector M12, 5-pin	WTT280L-2N2536	6048064
	PNP	Cable, 5-wire, 2 m ²⁾	WTT280L-2P1536	6048066
		Male connector M12, 5-pin	WTT280L-2P2536	6048062

¹⁾ Einstellbar.

²⁾ Do not bend below 0 °C.

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