



W4

Powerful miniature photoelectric sensors and photoelectric proximity sensors for automation

SICK
Sensor Intelligence.

Advantages



Diverse application possibilities thanks to different product variants

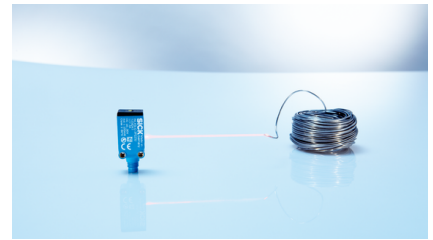
W4 photoelectric sensors are characterized by the range of individual variants available. With the ability to select from a variety of designs, you can obtain the most suitable sensor for your specific installation situation. Thanks to the compact sensor housing, the different designs can be integrated easily and in a space-saving manner even in very tight installation spaces. The availability of a variety of housing materials also opens up numerous applications. You also have freedom of choice when it comes to the light source. No matter what your particular application, SICK offers a reliable solution to precisely suit your specific requirements.



W4 sensors are available in either a Slim or Flat design. The standardized mounting ensures uncomplicated installation regardless of the design selected.



The sensors come with a housing made from either VISTAL or stainless steel. A hygienic stainless steel version is available for applications in sterile environments.



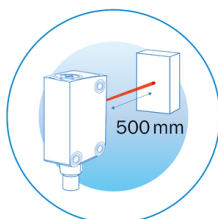
Red laser light provides the ideal basis for detecting even very small objects. The other light sources available are the highly-visible PinPoint LED, or an infrared LED.



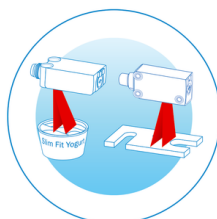
Various designs, housing materials and light sources provide a great deal of flexibility when selecting the most suitable sensor for your needs



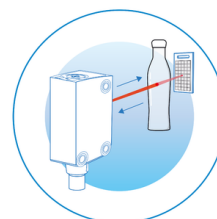
Impressive detection results in countless applications



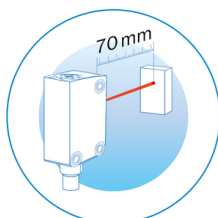
Thanks to the integrated ApplicationSelect mode, the sensor functions can be adapted to the specific requirements of the application. Even objects in an oblique orientation or with a low remission factor can thereby be reliably detected.



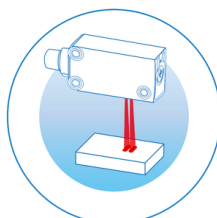
The LineSpot technology ensures perforated, textured, and uneven objects can be reliably detected.



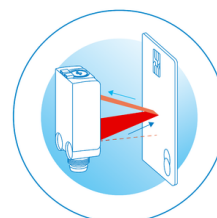
In the case of transparent objects such as glass bottles or cling film, the ClearSens technology guarantees reliable detection results.



The sensors can provide the distance value in millimeters and the remission value of the detected object via IO-Link.



Thanks to foreground suppression, the sensors reliably detect very flat, poorly reflecting, reflective, and uneven objects.



The integrated v-optics technology helps the device detect highly reflective and transparent objects such as wafers or displays by means of a very small, laser-like light spot.



Thanks to innovative technologies, the sensors can solve the most demanding detection tasks in almost any application regardless of the object properties



High user-friendliness through easy commissioning and operation

Besides their high detection reliability, the latest generation of W4 photoelectric sensors stand out on account of their particularly easy handling. Thanks to the intuitive BluePilot operating concept, the sensors can be configured in a matter of seconds via a push-turn mechanism and tailored to the specific application. A blue LED indicator gives you immediate feedback on the optimal alignment of the sensor. If the detection quality drops due to contamination or vibrations, you are alerted to this via a well visible LED. This enables malfunctions to be corrected early, and unplanned system downtimes to be avoided.



Using a combination of teach-in button and potentiometer, the required settings can be easily configured directly on the device



The blue LED alignment aid accelerates the process of optimally aligning the sensor, and indicates any changes in the operational safety at a glance



Thanks to the intuitive operating concept, the mode selection can be effortlessly performed and read directly on the device



The BluePilot operating concept allows convenient commissioning of the sensor in just a few seconds. The operating concept also minimizes the risk of unplanned downtimes.



Increased productivity thanks to innovative functions

The latest generation of W4 photoelectric sensors acquire a variety of performance parameters such as temperature, operating hours, remission values and distances values. The acquisition of these parameters provides the foundation for automated condition monitoring, which enables unplanned downtimes to be avoided. You can also flexibly and precisely tailor the sensor settings to your application. Condition monitoring and adjustments help increase your machine productivity. W4 photoelectric sensors therefore offer a future-proof solution for your system.



Innovative monitoring and diagnostic features allow powerful process control and thereby increase the machine productivity



Technical data overview

Dimensions (W x H x D)	16 mm x 40.1 mm x 12.1 mm 12.1 mm x 41.9 mm x 18.6 mm 16 mm x 39.5 mm x 12 mm 16 mm x 36.5 mm x 12 mm 12.2 mm x 41.8 mm x 17.3 mm 22 mm x 42 mm x 21.8 mm 15.25 mm x 44.5 mm x 22.2 mm 15.25 mm x 48.6 mm x 22.2 mm 15.25 mm x 49.2 mm x 22.2 mm 15.25 mm x 44.9 mm x 22.2 mm 15.3 mm x 55.4 mm x 22.2 mm 15.25 mm x 48.6 mm x 22.15 mm 15.25 mm x 63.2 mm x 22.15 mm 15.3 mm x 48.5 mm x 22.3 mm 15.3 mm x 63.2 mm x 22.2 mm
Functional principle detail	Background suppression MultiSwitch LineSpot technology DoubleLine NarrowBeam MultiPulse V-optics Foreground suppression With minimum distance to reflector (dual lens system) MultiMode Autocollimation ClearSens Dual lens (depending on type)
Light source	PinPoint LED LED Laser (depending on type)
Type of light	Visible red light / Infrared light (depending on type)
Enclosure rating	IP66 IP67 IP69 IP68 IP69K (depending on type)
Housing material	Plastic PTFE coating Stainless steel (depending on type)
Adjustment	Teach-in button Potentiometer Cable Teach-Turn adjustment None (depending on type)

Product description

W4 miniature photoelectric sensors and photoelectric proximity sensors are the ideal solution for the intelligent automation of industrial processes. The powerful sensors in the miniature housing reliably detect glossy, flat, uneven, perforated and transparent objects and detect a wide range of parameters such as remission and distance values. Due to the selection of different designs, housing materials and light sources, the sensors are well-suited to countless applications and nearly any assembly situation. The profile is rounded out with an intuitive operating concept and intelligent diagnostic functions.

At a glance

- Intelligent sensor performance for nearly any application
- Housing available in either a “slim” or “flat” design
- Optionally with VISTAL or stainless-steel housing
- Light source: Laser red light, infrared or PinPoint LED
- Smart Sensors with innovative monitoring and diagnostic functions
- Intuitive operating concept

Your benefits

- Fault-free system operation thanks to rugged and reliable object detection
- Space-saving assembly options and high flexibility in machine design thanks to different sizes
- Wide range of application possibilities due to various housing materials
- Solution for challenging detection tasks thanks to different light sources
- Powerful process control and increased machine productivity
- High user-friendliness thanks to quick and convenient commissioning and operation

Ordering information

Other models and accessories → www.sick.com/W4

- **Sensing range min. / max.:** 4 mm / 220 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
NPN	Cable with connector M8, 3-pin, 110 mm	WTB4FP-31E11120ZZZ	1137096
PNP	Cable with connector M8, 3-pin, 110 mm	WTB4FP-31A11120ZZZ	1136294
			1139281
	Connector M8, 3-pin	WTB4FP-21A11120ZZZ	1131021
		WTB4FP-21A12120ZZZ	1138642
	Male connector M8, 4-pin	WTB4FP-22861120A00	1140919
		WTB4FP-22862120A00	1140917
Push-pull: PNP/NPN	Cable with M12 male connector, 4-pin, 182 mm	WTB4FP-84161120A00	1123751
		WTB4FP-84167120A00	1123752
	Cable with M8 male connector, 4-pin, 110 mm	WTB4FP-32161120A00	1105505
		WTB4FP-32162120A00	1127560
			1124614
		WTB4FP-32167120A00	1120894
		WTB4FP-3216A120A00	1119983
	Cable with connector M8, 3-pin, 110 mm	WTB4FP-31311120ZZZ	1107692
			1139484
		WTB4FP-31312120ZZZ	1120713

Switching output	Connection type	Type	Part no.
	Cable with connector M8, 3-pin, with knurled nuts, 340 mm	WTB4FP-97311120ZZZ	1124154
	Cable with special connector, 1,015 mm	WTB4FP-XX312120ZZZ	1127217
	Cable with special connector, 115 mm	WTB4FP-XX56K120A00	1127194
	Cable, 3-wire, 2 m	WTB4FP-1G311120ZZZ	1223018
		WTB4FP-1G312120ZZZ	1120711
	Cable, 3-wire, 5 m	WTB4FP-6G311120ZZZ	1123762
	Cable, 4-wire, 2 m	WTB4FP-1H161120A00	1223017
		WTB4FP-1H162120A00	1119979
		WTB4FP-1H56K120A00	1119982
	Cable, 4-wire, 5 m	WTB4FP-6H161120A00	1123757
		WTB4FP-6H167120A00	1123756
	Connector M8, 3-pin	WTB4FP-21311120ZZZ	1222999
		WTB4FP-21312120ZZZ	1119968
	Male connector M8, 4-pin	WTB4FP-22161100A00	1124609
		WTB4FP-22161120A00	1222998
			1119985
		WTB4FP-22162120A00	1126158
		WTB4FP-22167120A00	1119980
		WTB4FP-2216K120A00	1119981
		WTB4FP-2216N120A00	1119984

- **Sensing range min. / max.:** 4 mm / 100 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Connection type:** male connector M8, 4-pin
- **Housing:** rectangular

Type	Part no.
WTB4FP-221111A0ZZZ	1120710
WTB4FP-22161120A00	1122374

- **Sensing range min. / max.:** 4 mm / 200 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Male connector M8, 4-pin	Rectangular	WTB4FP-22161120A00	1122375

- **Sensing range min. / max.:** 4 mm / 80 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Cable, 3-wire, 2 m	Rectangular	WTB4FP-1G3111A0ZZZ	1134541

- **Sensing range min. / max.:** 4 mm / 95 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Cable, 3-wire, 3 m	Rectangular	WTB4FP-5G3111A0ZZZ	1138481

- **Sensing range min. / max.:** 4 mm / 47 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Cable with connector M8, 3-pin, 110 mm	Rectangular	WTB4FP-313111A0ZZZ	1126171

- **Sensing range min. / max.:** 4 mm / 48 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Cable with connector M8, 3-pin, 110 mm	Rectangular	WTB4FP-P02	1126426

- **Sensing range min. / max.:** 6 mm / 250 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** Infrared light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M8 male connector, 4-pin, 110 mm	WTB4FI-32161120A00	1113169
	WTB4FI-32162120A00	1120895
Cable with connector M8, 3-pin, 110 mm	WTB4FI-31311120ZZZ	1113170
Cable with connector M8, 4-pin, with knurled nuts, 220 mm	WTB4FI-88161120A00	1127192
Cable, 3-wire, 2 m	WTB4FI-1G311120ZZZ	1113168
Cable, 4-wire, 2 m	WTB4FI-1H161120A00	1113167
Connector M8, 3-pin	WTB4FI-21311120ZZZ	1113166
	WTB4FI-21312120ZZZ	1135865
Male connector M8, 4-pin	WTB4FI-22161120A00	1105442

- **Sensing range min. / max.:** 4 mm / 220 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, MultiSwitch
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M8 male connector, 4-pin, 110 mm	WTB4FP-3216D150A00	1113164
Cable, 4-wire, 2 m	WTB4FP-1H16D150A00	1113165
Male connector M8, 4-pin	WTB4FP-2216D150A00	1107693
	WTB4FP-2216R150A00	1119989

- **Sensing range min. / max.:** 7 mm / 150 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, LineSpot technology
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
PNP	Cable with M12 male connector, 4-pin, 182 mm	WTB4FA-84811120ZZZ	1139157
	Cable with connector M8, 3-pin, 110 mm	WTB4FA-31A11120ZZZ	1131022
	Cable with connector M8, 3-pin, with knurled nuts, 338 mm	WTB4FA-97A11120ZZZ	1138136
	Connector M8, 3-pin	WTB4FA-21A12120ZZZ	1138641
	Male connector M8, 4-pin	WTB4FA-22861120A00	1140918

Switching output	Connection type	Type	Part no.
Push-pull: PNP/NPN	Cable with M8 male connector, 4-pin, 110 mm	WTB4FA-32161120A00	1128019
	Cable with connector M8, 3-pin, 110 mm	WTB4FA-31312120ZZZ	1131184
	Cable with connector M8, 3-pin, with knurled nuts, 338 mm	WTB4FA-97311120ZZZ	1136747
	Male connector M8, 4-pin	WTB4FA-22161120A00	1127193

- **Sensing range min. / max.:** 7 mm / 120 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, DoubleLine
- **Light source:** PinPoint LED
- **Housing:** rectangular

Switching output	Type of light	Connection type	Type	Part no.
PNP	Infrared light	Connector M8, 3-pin	WTB4FQ-21A12120ZZZ	1137888
	Visible red light	Cable with M8 male connector, 4-pin, 110 mm	WTB4FT-32862120A00	1140923
		Cable with connector M8, 3-pin, 110 mm	WTB4FT-31A11120ZZZ	1131023
		Connector M8, 3-pin	WTB4FT-21A11120ZZZ	1129445
		Male connector M8, 4-pin	WTB4FT-22811120ZZZ	1130314
			WTB4FT-22862120A00	1140924
Push-pull: PNP/NPN	Visible red light	Cable with M8 male connector, 4-pin, 110 mm	WTB4FT-32161120A00	1113179
		Cable with connector M8, 3-pin, 110 mm	WTB4FT-31311120ZZZ	1113180
			WTB4FT-31312120ZZZ	1120715
		Cable with connector M8, 3-pin, with knurled nuts, 340 mm	WTB4FT-97311120ZZZ	1129739
		Cable with connector M8, 4-pin, with knurled nuts, 115 mm	WTB4FT-38161120A00	1124151
		Cable, 3-wire, 2 m	WTB4FT-1G311120ZZZ	1113178
			WTB4FT-1G312120ZZZ	1120714
		Cable, 4-wire, 2 m	WTB4FT-1H161120A00	1113177
			WTB4FT-1H162120A00	1119987
		Connector M8, 3-pin	WTB4FT-21311120ZZZ	1113176
			WTB4FT-21312120ZZZ	1119970
		Male connector M8, 4-pin	WTB4FT-22161120A00	1105435

- **Sensing range min. / max.:** 4 mm / 100 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, NarrowBeam
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M8 male connector, 4-pin, 110 mm	WTB4FP-32161220A00	1115528

Connection type	Type	Part no.
Cable with connector M8, 3-pin, 110 mm	WTB4FP-31311220ZZZ	1119969
Male connector M8, 4-pin	WTB4FP-22161220A00	1113724

- **Sensing range min. / max.:** 4 mm / 56 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, NarrowBeam

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Connector M8, 3-pin	Rectangular	WTB4FP-213112A0ZZZ	1120706

- **Sensing range min. / max.:** 4 mm / 100 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, MultiSwitch, NarrowBeam
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M8 male connector, 4-pin, 110 mm	WTB4FP-3216D250A00	1121416
Cable, 4-wire, 2 m	WTB4FP-1H16D250A00	1121417
Male connector M8, 4-pin	WTB4FP-2216D250A00	1120899
	WTB4FP-2216R250A00	1121418

- **Sensing range min. / max.:** 4 mm / 220 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, MultiPulse
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with connector M8, 3-pin, with knurled nuts, 338 mm	WTB4FP-97311120ZZZ	1125734
Connector M8, 3-pin	WTB4FP-21311120ZZZ	1125736

- **Sensing range min. / max.:** 28 mm / 165 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, MultiPulse
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with connector M8, 3-pin, with knurled nuts, 318 mm	WTB4FP-97311A0ZZZ	1125738
Connector M8, 3-pin	WTB4FP-213111A0ZZZ	1125739
		1125740

- **Sensing range min. / max.:** 28 mm / 80 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, MultiPulse

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Connector M8, 3-pin	Rectangular	WTB4FP-213111A0ZZZ	1138152

- **Sensing range min. / max.:** 4 mm / 60 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, MultiPulse

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Connector M8, 3-pin	Rectangular	WTB4FP-213111A0ZZZ	1138006

- **Sensing range min. / max.:** 28 mm / 50 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, MultiPulse

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Connector M8, 3-pin	Rectangular	WTB4FP-213111A0ZZZ	1138151

- **Sensing range min. / max.:** 3 mm / 25 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, MultiPulse

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Connector M8, 3-pin	Rectangular	WTB4FP-213112A0ZZZ	1125737

- **Sensing range min. / max.:** 7 mm / 150 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, MultiPulse, LineSpot technology
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Connection type:** Cable with connector M8, 3-pin, with knurled nuts, 338 mm
- **Housing:** rectangular

Type	Part no.
WTB4FA-97311120ZZZ	1127216
	1130363

- **Sensing range min. / max.:** 2 mm / 50 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, V-optics
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
PNP	Cable with connector M8, 3-pin, 110 mm	WTV4FE-31A11120ZZZ	1129444

Switching output	Connection type	Type	Part no.
Push-pull: PNP/NPN	Cable with M12 male connector, 4-pin, 182 mm	WTV4FE-84161120A00	1123753
		WTV4FE-8416A120A00	1123755
	Cable with M8 male connector, 4-pin, 110 mm	WTV4FE-32161120A00	1113189
	Cable with connector M8, 3-pin, 110 mm	WTV4FE-31311120ZZZ	1113190
	Cable with connector M8, 3-pin, with knurled nuts, 115 mm	WTV4FE-37311120ZZZ	1124152
	Cable with connector M8, 3-pin, with knurled nuts, 340 mm	WTV4FE-97311120ZZZ	1124153
	Cable, 3-wire, 2 m	WTV4FE-1G311120ZZZ	1113188
		WTV4FE-1G312120ZZZ	1120716
	Cable, 4-wire, 2 m	WTV4FE-1H161120A00	1113187
		WTV4FE-1H162120A00	1120896
	Connector M8, 3-pin	WTV4FE-21311120ZZZ	1113186
		WTV4FE-21312120ZZZ	1119972
	Male connector M8, 4-pin	WTV4FE-22161100A00	1124617
		WTV4FE-22161120A00	1105444
		WTV4FE-22162120A00	1119988

- **Sensing range min. / max.:** 4 mm / 22 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, V-optics

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Cable, 3-wire, 3 m	Rectangular	WTV4FE-5G3111A0ZZZ	1125733

- **Sensing range min. / max.:** 2 mm / 22 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, V-optics

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Connector M8, 3-pin	Rectangular	WTV4FE-213111A0ZZZ	1120709

- **Sensing range min. / max.:** 0 mm / 100 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Foreground suppression
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M8 male connector, 4-pin, 110 mm	WTF4FD-32161220A00	1118831
	WTF4FD-32162220A00	1113184
Cable with connector M8, 3-pin, 110 mm	WTF4FD-31312220ZZZ	1113185
Cable, 3-wire, 2 m	WTF4FD-1G312220ZZZ	1113183

Connection type	Type	Part no.
Cable, 4-wire, 2 m	WTF4FD-1H161220A00	1118830
	WTF4FD-1H162220A00	1113182
Connector M8, 3-pin	WTF4FD-21311220ZZZ	1119973
Male connector M8, 4-pin	WTF4FD-22161220A00	1105423
	WTF4FD-22162220A00	1109266

- **Sensing range min. / max.:** 0 m / 4.5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** With minimum distance to reflector (dual lens system)
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
PNP	Cable with M8 male connector, 4-pin, 110 mm	WLD4FP-32862100A00	1140921
	Cable with connector M8, 3-pin, 110 mm	WLD4FP-31A111A0ZZZ	1138640
		WLD4FP-31A121A0ZZZ	1138639
	Connector M8, 3-pin	WLD4FP-21A111A0ZZZ	1133952
		WLD4FP-21A12130ZZZ	1129493
		WLD4FP-21A121A0ZZZ	1129443
	Male connector M8, 4-pin	WLD4FP-228121A0ZZZ	1129442
Push-pull: PNP/NPN	Cable with M12 male connector, 4-pin, 182 mm	WLD4FP-841111A0ZZZ	1123748
		WLD4FP-841121A0ZZZ	1123746
	Cable with M8 male connector, 4-pin, 110 mm	WLD4FP-321121A0ZZZ	1121476

Switching output	Connection type	Type	Part no.
	Cable with connector M8, 3-pin, 110 mm	WLD4FP-32162130A00	1113194
		WLD4FP-313111A0ZZZ	1121475
		WLD4FP-31312130ZZZ	1113195
		WLD4FP-313121A0ZZZ	1121474
	Cable with special connector, 225 mm	WLD4FP-XX3121A0ZZZ	1127196
	Cable, 3-wire, 2 m	WLD4FP-1G3111A0ZZZ	1121470
		WLD4FP-1G312130ZZZ	1113193
		WLD4FP-1G3121A0ZZZ	1121469
	Cable, 3-wire, 5 m	WLD4FP-6G3121A0ZZZ	1123761
	Cable, 4-wire, 2 m	WLD4FP-1H161130A00	1107694
		WLD4FP-1H162130A00	1113192
	Connector M8, 3-pin	WLD4FP-213111A0ZZZ	1121473
		WLD4FP-21312100ZZZ	1124611
		WLD4FP-213121A0ZZZ	1121472
	Male connector M8, 4-pin	WLD4FP-22112100ZZZ	1124610
		WLD4FP-221121A0ZZZ	1121471
		WLD4FP-22163130A00	1124613
		WLD4FP-22164130A00	1124156
		WLD4FP-22165130A00	1124612
		WLD4FP-22166130A00	1124157

- **Sensing range min. / max.:** 0 mm / 4.5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** With minimum distance to reflector (dual lens system)
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
PNP	Male connector M8, 4-pin	WLD4FP-22861100A00	1140920
Push-pull: PNP/NPN	Cable with M12 male connector, 4-pin, 182 mm	WLD4FP-8416A130A00	1123749
	Connector M8, 3-pin	WLD4FP-21311130ZZZ	1119974
	Male connector M8, 4-pin	WLD4FP-22162130A00	1107303
			1122373
		WLD4FP-22167130A00	1119990
		WLD4FP-2216A130A00	1119993
		WLD4FP-2216K130A00	1119991
		WLD4FP-2216N130A00	1119994
		WLD4FP-2256K130A00	1119992
		WLD4FP-22862100A00	1140922

- **Sensing range min. / max.:** 15 mm / 4.5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** With minimum distance to reflector (dual lens system)

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Connector M8, 3-pin	Rectangular	WLD4FP-21312130ZZZ	1113191

- **Sensing range min. / max.:** 0 m / 10 m
- **Functional principle:** Through-beam photoelectric sensor
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M12 male connector, 4-pin, 182 mm	WSE4FP-84161100A00	1123901
Cable with M8 male connector, 4-pin, 110 mm	WSE4FP-32162100A00	1116538
Cable with connector M8, 3-pin, 110 mm	WSE4FP-31311100ZZZ	1123398
	WSE4FP-31312100ZZZ	1120402
Cable, 3-wire, 2 m	WSE4FP-1G311100ZZZ	1123397
	WSE4FP-1G312100ZZZ	1120403
Cable, 3-wire, 5 m	WSE4FP-6G312100ZZZ	1123899
Cable, 4-wire, 2 m	WSE4FP-1H162100A00	1116539
Connector M8, 3-pin	WSE4FP-21311100ZZZ	1123396
	WSE4FP-21312100ZZZ	1120404
Male connector M8, 4-pin	WSE4FP-22162100A00	1116537

- **Sensing range min. / max.:** 0 m / 2 m
- **Functional principle:** Through-beam photoelectric sensor
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with connector M8, 3-pin, 110 mm	WSE4FP-31311100ZZZ	1127055
	WSE4FP-31311600ZZZ	1124218
Connector M8, 3-pin	WSE4FP-21312600ZZZ	1124217

- **Sensing range min. / max.:** 0 m / 1.5 m
- **Functional principle:** Through-beam photoelectric sensor

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Connector M8, 3-pin	Rectangular	WSE4FP-21311700ZZZ	1123902

- **Sensing range min. / max.:** 0 m / 10 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** With minimum distance to reflector (dual lens system)
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** Infrared light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with connector M8, 3-pin, with knurled nuts, 338 mm	WLF4FI-973121A0ZZZ	1124155
Cable, 3-wire, 2 m	WLF4FI-1G3111A0ZZZ	1122376
	WLF4FI-1G3121A0ZZZ	1138208

- **Sensing range min. / max.:** 4 mm / 250 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
NPN	Cable, 3-wire, 2 m	WTB4SP-1GE11120ZZZ	1132088

Switching output	Connection type	Type	Part no.
Push-pull: PNP/NPN	Cable with M12 male connector, 4-pin, 190 mm	WTB4SP-84161120A00	1136365
	Cable with M8 male connector, 4-pin, 114 mm	WTB4SP-32161120A00	1132093
	Cable with connector M8, 3-pin, 110 mm	WTB4SP-31311120ZZZ	1139085
	Cable, 3-wire, 2 m	WTB4SP-1G311120ZZZ	1139078
		WTB4SP-1G312120ZZZ	1139077
	Cable, 4-wire, 2 m	WTB4SP-1H161120A00	1132094
		WTB4SP-1H162120A00	1139081
	Connector M8, 3-pin	WTB4SP-21311120ZZZ	1136382
		WTB4SP-21312120ZZZ	1139074
	Male connector M8, 4-pin	WTB4SP-22161120A00	1131618
		WTB4SP-22162120A00	1136366

- **Sensing range min. / max.:** 4 mm / 130 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, NarrowBeam
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M12 male connector, 4-pin, 190 mm	WTB4SP-84161220A00	1136370
Cable with M8 male connector, 4-pin, 114 mm	WTB4SP-32161220A00	1132087
Cable with connector M8, 3-pin, 110 mm	WTB4SP-31311220ZZZ	1139073
	WTB4SP-31312220ZZZ	1139072
Cable, 3-wire, 2 m	WTB4SP-1G311220ZZZ	1138660
	WTB4SP-1G312220ZZZ	1139076
Cable, 4-wire, 2 m	WTB4SP-1H161220A00	1132793
	WTB4SP-1H162220A00	1139082
Connector M8, 3-pin	WTB4SP-21311220ZZZ	1139075
	WTB4SP-21312220ZZZ	1139071
Male connector M8, 4-pin	WTB4SP-22161220A00	1132792
	WTB4SP-22162220A00	1139083

- **Sensing range min. / max.:** 0 mm / 150 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, DoubleLine
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M12 male connector, 4-pin, 190 mm	WTB4ST-84161120A00	1136371
Cable with M8 male connector, 4-pin, 114 mm	WTB4ST-32161120A00	1132090
Cable with connector M8, 3-pin, 110 mm	WTB4ST-31312120ZZZ	1140101

Connection type	Type	Part no.
Cable, 4-wire, 2 m	WTB4ST-1H161120A00	1139080
	WTB4ST-1H162120A00	1136372
Connector M8, 3-pin	WTB4ST-21312120ZZZ	1138661
Male connector M8, 4-pin	WTB4ST-22161120A00	1131620

- **Sensing range min. / max.:** 4 mm / 250 mm, 0 mm / 250 mm, 4 mm / 500 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, Foreground suppression, MultiMode
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M12 male connector, 4-pin, 190 mm	WTM4SP-84161120A00	1136368
Cable with M8 male connector, 4-pin, 114 mm	WTM4SP-32161120A00	1136367
Cable, 4-wire, 2 m	WTM4SP-1H161120A00	1139115
	WTM4SP-1H162120A00	1136369
Male connector M8, 4-pin	WTM4SP-22161120A00	1131619

- **Sensing range min. / max.:** 0 mm / 130 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Foreground suppression
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M12 male connector, 4-pin, 182 mm	WTF4SD-84161220A00	1139113
Cable with M12 male connector, 4-pin, 190 mm	WTF4SD-84162220A00	1136374
Cable with M8 male connector, 4-pin, 110 mm	WTF4SD-32161220A00	1139114
Cable with M8 male connector, 4-pin, 114 mm	WTF4SD-32162220A00	1136373
Cable, 4-wire, 2 m	WTF4SD-1H161220A00	1136375
	WTF4SD-1H162220A00	1139084
Male connector M8, 4-pin	WTF4SD-22162220A00	1132089

- **Sensing range min. / max.:** 0 m / 4 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M12 male connector, 4-pin, 182 mm	WLA4SP-84162100A00	1139756
Cable with M8 male connector, 4-pin, 114 mm	WLA4SP-32162100A00	1136376
Cable with connector M8, 3-pin, 110 mm	WLA4SP-31311100ZZZ	1139129
	WLA4SP-31312100ZZZ	1139138
Cable, 3-wire, 2 m	WLA4SP-1G311100ZZZ	1139133
	WLA4SP-1G312100ZZZ	1139137
Cable, 4-wire, 2 m	WLA4SP-1H161100A00	1136378
	WLA4SP-1H162100A00	1136377
Connector M8, 3-pin	WLA4SP-21311100ZZZ	1139131
	WLA4SP-21312100ZZZ	1139135
Male connector M8, 4-pin	WLA4SP-22162100A00	1132091

- **Sensing range min. / max.:** 0 m / 7.1 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M12 male connector, 4-pin, 182 mm	WLA4SP-84162130A00	1139759
Cable with M8 male connector, 4-pin, 114 mm	WLA4SP-32162130A00	1136388
Cable with connector M8, 3-pin, 110 mm	WLA4SP-31311130ZZZ	1139134
	WLA4SP-31312130ZZZ	1139130
Cable, 4-wire, 2 m	WLA4SP-1H161130A00	1136386
	WLA4SP-1H162130A00	1136387
Connector M8, 3-pin	WLA4SP-21311130ZZZ	1139136
	WLA4SP-21312130ZZZ	1139132
Male connector M8, 4-pin	WLA4SP-22161130A00	1139755
	WLA4SP-22162130A00	1136389

- **Sensing range min. / max.:** 0 m / 7.1 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation, ClearSens, MultiMode
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M12 male connector, 4-pin, 182 mm	WLG4SP-84161130A00	1139754
	WLG4SP-84162130A00	1139758
Cable with M12 male connector, 4-pin, 190 mm	WLG4SP-84162120A00	1136380
Cable with M8 male connector, 4-pin, 114 mm	WLG4SP-32162120A00	1136379
	WLG4SP-32162130A00	1136638
Cable with connector M8, 3-pin, 110 mm	WLG4SP-31311130ZZZ	1140091
	WLG4SP-31312130ZZZ	1140102
Cable, 4-wire, 2 m	WLG4SP-1H161120A00	1139757
	WLG4SP-1H162120A00	1136381
	WLG4SP-1H162130A00	1136639
Male connector M8, 4-pin	WLG4SP-22161130A00	1139753
	WLG4SP-22162120A00	1132092
	WLG4SP-22162130A00	1136637

- **Sensing range min. / max.:** 0 m / 12 m
- **Functional principle:** Through-beam photoelectric sensor

Switching output	Light source	Type of light	Connection type	Housing	Type	Part no.
Push-pull: PNP/NPN	PinPoint LED	Visible red light	Male connector M8, 4-pin	Rectangular	WSE4SP-22162100A00	1138377

- **Sensing range max.:** 4 mm ... 150 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Housing:** rectangular

Switching mode	Switching output	Type of light	Connection type	Type	Part no.
Dark switching	NPN	Visible red light	Cable with connector M8, 3-pin ¹⁾	WTB4-3E3161	1028109
			Cable, 3-wire, 2 m ¹⁾	WTB4-3E1361	1028108
				WTB4-3E1371	1066656
			Cable, 4-wire, 2 m ¹⁾	WTB4-3E1164S01	1029111
	PNP	Visible red light	Connector M8, 3-pin	WTB4-3E2161	1028110
			Cable with connector M8, 3-pin ¹⁾	WTB4-3F3161	1028106
				WTB4-3F3162	1084429
			Cable, 3-wire, 2 m ¹⁾	WTB4-3F1361	1028105
				WTB4-3F2161	1028107
			Connector M8, 3-pin	WTB4-3F2162	1051228
Light switching	NPN	Visible red light	–	WTB4-3N1061S31	1044345
			Cable with connector M8, 3-pin ¹⁾	WTB4-3N3161	1028103
				WTB4-3N3162	1028089
				WTB4-3N3171	1041717
			Cable, 3-wire, 2 m ¹⁾	WTB4-3N1361	1028101
				WTB4-3N1361S16	1029877
				WTB4-3N1362	1028087
				WTB4-3N1371	1028125
			Cable, 3-wire, 5 m ¹⁾	WTB4-3N1461	1057301
			Cable, 4-wire, 2 m ¹⁾	WTB4-3N1160S53	1044783
				WTB4-3N1164	1028090
				WTB4S-3N1164	1042036
			Connector M8, 3-pin	WTB4-3N2161	1028104
				WTB4-3N2171	1028126
			Cable with special connector, 3-wire ¹⁾	WTB4-3N1164S86	1077100
	PNP	Infrared light	Cable with M8 male connector, 4-pin ¹⁾	WTB4-3P3214S59	1052261
Light switching	PNP	Visible red light	Cable with M12 male connector, 4-pin ¹⁾	WTB4-3P3464	1044013
			Cable with M8 male connector, 4-pin ¹⁾	WTB4-3P3261S27	1029884
				WTB4-3P3264	1047193
				WTB4-3P3264S03	1029467
				WTB4-3P3264S30	1040628
				WTB4-3P3271S07	1083881

¹⁾ Do not bend below 0 °C.

Switching mode	Switching output	Type of light	Connection type	Type	Part no.
				WTB4S-3P3264	1042035
			Cable with connector M8, 3-pin	WTB4-3P3061S15	1029876
				WTB4S-3P3162	1042038
			Cable with connector M8, 3-pin ¹⁾	WTB4-3P3161	1028097
				WTB4-3P3161S11	1029873
				WTB4-3P3162	1028082
				WTB4-3P3162S04	1029917
				WTB4-3P3162S45	1042104
		Visible red light	Cable with connector M8, 3-pin ¹⁾	WTB4-3P3171	1028122
			Cable, 3-wire, 2 m ¹⁾	WTB4-3P1361	1028094
				WTB4-3P1362	1028081
				WTB4-3P1371	1028121
			Cable, 4-wire, 5 m ¹⁾	WTB4-3P1264	1041890
			Connector M8, 3-pin	WTB4-3P2161	1028099
				WTB4-3P2161S28	1040445
				WTB4-3P2162	1028084
				WTB4-3P2171	1028123
				WTB4S-3P2162	1042037
			Male connector M8, 4-pin	WTB4-3P2261S25	1029883
				WTB4-3P2262S41	1041242
				WTB4-3P2264	1028086
				WTB4-3P2264S32	1045858
				WTB4S-3P2264	1042034
				WTB4S-3P2264S01	1043652

¹⁾ Do not bend below 0 °C.

Switching mode	Switching output	Type of light	Connection type	Type	Part no.
Light/dark switching	NPN	Visible red light	Cable with M8 male connector, 4-pin ¹⁾	WTB4-3N3262	1075083
			Cable, 4-wire, 2 m ¹⁾	WTB4-3N1161	1028102
	PNP	Visible red light	Cable with M12 male connector, 4-pin	WTB4C-3P3462A00	1099420
			Cable with M12 male connector, 4-pin ¹⁾	WTB4-3P3461	1029949
			Cable with M8 male connector, 4-pin ¹⁾	WTB4-3P3261	1028098
			Cable, 4-wire, 2 m ¹⁾	WTB4-3P1161	1028096
			Cable, 4-wire, 5 m ¹⁾	WTB4-3P1261	1092244
			Male connector M8, 4-pin	WTB4-3P2261	1028100
				WTB4-3P2262	1028085
				WTB4-3P2271	1042190
				WTB4C-3P2262A00	1080927
				WTB4C-3P2262A70	1080928
				WTB4C-3P2262A71	9243603
					1080929

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 3 mm ... 150 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching output:** PNP
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Connection type	Type	Part no.
Light switching	Cable with M8 male connector, 4-pin ¹⁾	WTB4-3P3261S51	1043518
Light/dark switching	Male connector M8, 4-pin	WTB4-3P2261S44	1041937

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 4 mm ... 140 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable with connector M8, 3-pin ¹⁾	Rectangular	WTB4-3P3161S02	1029261

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 28 mm ... 165 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable with connector M8, 3-pin	Rectangular	WTB4-3P2100S78	1059594

- **Sensing range max.:** 4 mm ... 55 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable with male connector ¹⁾	WTB4-3E1360S46	1042154
Light switching	PNP	Cable with connector M8, 3-pin ¹⁾	WTV4-3P3041S12	1029874
		Cable, 3-wire, 2 m ¹⁾	WTV4-3P1341S77	1059327

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 15 mm ... 150 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable with M8 male connector, 4-pin ¹⁾	Rectangular	WTB4-3P3264S75	1057266

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 3 mm ... 200 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light/dark switching
- **Switching output:** PNP
- **Light source:** LED
- **Type of light:** Infrared light
- **Connection type:** Cable with M8 male connector, 4-pin (Do not bend below 0 °C.)
- **Housing:** rectangular

Type	Part no.
WTB4-3P3212S54	1046786
WTB4-3P3212S61	1052910

- **Sensing range max.:** ≤ 150 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
LED	Infrared light	Cable with connector RJ10, 4-pin ¹⁾	Rectangular	WTB4-3P3241S74	1057156

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 3 mm ... 250 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light/dark switching
- **Switching output:** NPN

Light source	Type of light	Connection type	Housing	Type	Part no.
LED	Infrared light	Cable with M8 male connector, 4-pin ¹⁾	Rectangular	WTB4-3N3212S55	1046787

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 4 mm ... 50 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Housing:** rectangular

Switching mode	Switching output	Type of light	Connection type	Type	Part no.
Dark switching	NPN	Visible red light	Cable, 4-wire, 2 m ¹⁾	WTV4-3N1141	1084396
	PNP	Visible red light	Cable with connector M8, 3-pin ¹⁾	WTV4-3F3141S48	1042161
Light switching	NPN	Infrared light	Cable, 3-wire, 2 m ¹⁾	WTV4-3N1321	1029885
				WTV4-3N1322P07	1104149
				WTV4-3N1322S01	1085155
				WTV4-3N1322S88	1100125
				WTV4-3N1322S89	1088289
				WTV4-3N1322S90	1093901
	PNP	Visible red light	Cable, 3-wire, 2 m ¹⁾	WTV4-3N1341	1028115
			Connector M8, 3-pin	WTV4-3N2141	1028116
		Infrared light	Cable with connector M8, 3-pin ¹⁾	WTV4-3P3021S64	1054543
				WTV4-3P3121	1042191
			Cable, 3-wire, 2 m ¹⁾	WTV4-3P3122	1046411
				WTV4-3P1321	1029888
		Visible red light	–	WTV4-3P1040S42	1041689
			Cable with M12 male connector, 4-pin ¹⁾	WTV4-3P3441S38	1040696
			Cable with connector M8, 3-pin ¹⁾	WTV4-3P3141	1028112
			Cable, 3-wire, 2 m ¹⁾	WTV4-3P1341	1028111
			Connector M8, 3-pin	WTV4-3P2140S32	1040689
				WTV4-3P2140S33	1029887
				WTV4-3P2140S43	1041693
				WTV4-3P2141	1028113
Light/dark switching	NPN	Infrared light	Male connector M8, 4-pin	WTV4-3N2221	1048995
	PNP	Visible red light	Cable with M12 male connector, 4-pin ¹⁾	WTV4-3P3441	1029582
			Cable, 4-wire, 2 m ¹⁾	WTV4-3P1141	1084397
			Male connector M8, 4-pin	WTV4-3P2241	1028114

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 22 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable, 3-wire, 3 m	Rectangular	WTV4-3P1040S17	1029879

- **Sensing range max.:** 2 mm ... 50 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Type of light:** Infrared light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Light switching	NPN	Cable, 3-wire, 2 m ¹⁾	WTV4-3N1321S49	1043721
	PNP	Cable, 3-wire, 2 m ¹⁾	WTV4-3P1321S54	1045365
Light/dark switching	NPN	Male connector M8, 4-pin	WTV4-3N2221P04	1051481

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 3 mm ... 50 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Type of light:** Infrared light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Light switching	NPN	Male connector M8, 4-pin	WTV4-3N2201S68	1055055
	PNP	Cable with M8 male connector, 4-pin ¹⁾	WTV4-3P3222S57	1050786
Light/dark switching	PNP	Cable with M8 male connector, 4-pin ¹⁾	WTV4-3P3222S60	1052426

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 10 mm ... 60 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Foreground suppression
- **Switching mode:** Light switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Connector M8, 3-pin	Rectangular	WTF4-3F2161S49	1042432

- **Sensing range max.:** 0.01 m ... 4.5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** Dual lens
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	–	WL4-3E3030S21	1029891
		Cable with connector M8, 3-pin ¹⁾	WL4-3E3130	1028157
		Cable with special male connector, 4-pin ¹⁾	WL4-3E3034S34	1064934
		Cable, 3-wire, 2 m ¹⁾	WL4-3E1330	1028156
		Connector M8, 3-pin	WL4-3E2130	1028158
	PNP	–	WL4-3F3030S35	1068099
		Cable with M12 male connector, 4-pin ¹⁾	WL4-3F3430S29	1043682
		Cable with connector M8, 3-pin ¹⁾	WL4-3F3130	1028153
		Cable, 3-wire, 2 m ¹⁾	WL4-3F1330	1028152
		Connector M8, 3-pin	WL4-3F2130	1028155
Light switching	NPN	–	WL4-3N3031S02	1042990
			WL4-3N3031S03	1042991
		Cable with connector M8, 3-pin ¹⁾	WL4-3N3130	1028150
		Cable, 3-wire, 2 m ¹⁾	WL4-3N1330	1028148
		Connector M8, 3-pin	WL4-3N2130	1028151
	PNP	Cable with M12 male connector, 4-pin ¹⁾	WL4-3P3430	1044347
		Cable with Tyco connector ¹⁾	WL4-3P3030S32	1058696
			WL4-3P3030S33	1058697
		Cable with connector M8, 3-pin ¹⁾	WL4-3P3130	1028144
		Cable, 3-wire, 2 m ¹⁾	WL4-3P1330	1028143
		Cable, 3-wire, 5 m ¹⁾	WL4-3P1430	1050558
		Connector M8, 3-pin	WL4-3P2130	1028146

¹⁾ Do not bend below 0 °C.

Switching mode	Switching output	Connection type	Type	Part no.
Light/dark switching	PNP	Cable with M12 male connector, 4-pin	WL4C-3P3432A00	1099421
		Cable with M12 male connector, 4-pin ¹⁾	WL4-3K3430	1106886
		Cable with M8 male connector, 4-pin ¹⁾	WL4-3P3230	1028145
		Male connector M8, 4-pin	WL4-3P2230	1028147
			WL4C-3P2232A00	1080930
			WL4C-3P2232A70	1080931
			WL4C-3P2232A71	1080932

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0.01 m ... 4.5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable, 3-wire, 2 m ¹⁾	WLG4-3E1332	1028131
		Cable, 4-wire, 2 m ¹⁾	WLG4-3E1134	1028133
		Connector M8, 3-pin	WLG4-3E2132	1028132
	PNP	Cable with M12 male connector, 4-pin ¹⁾	WLG4-3F3434	1043683
		Cable with M8 male connector, 4-pin ¹⁾	WLG4-3F3234	1028129
		Cable with connector M8, 3-pin ¹⁾	WLG4-3F3132	1028128
		Connector M8, 3-pin	WLG4-3F2132	1028127
		Male connector M8, 4-pin	WL4-3F2260S28	1042430
			WLG4-3F2234	1028130
Light switching	PNP	Cable, 3-wire, 2 m ¹⁾	WLG4-3P1332	1042844
		Connector M8, 3-pin	WLG4-3P2132	1029567
		Male connector M8, 4-pin	WL4-3P2260S27	1042429
Light/dark switching	PNP	Male connector M8, 4-pin	WLG4-3K2232	1070194
			WLG4C-3P2232A00	1080933
			WLG4C-3P2232A70	1080934
			WLG4C-3P2232A71	1080935

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0.4 m ... 3.5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Switching mode:** Light switching
- **Light source:** LED
- **Type of light:** Infrared light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
NPN	Cable, 3-wire ¹⁾	WL4-3N1310S25	1029959
PNP	Cable with M12 male connector, 4-pin ¹⁾	WL4-3P3410S19	1029889
	Cable, 3-wire, 2 m ¹⁾	WL4-3P1310S31	1044668
	Cable with male connector ¹⁾	WL4-3P3010S22	1042455

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0.4 m ... 9 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** Dual lens
- **Switching mode:** Light/dark switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
LED	Infrared light	Cable with male connector ¹⁾	Rectangular	WL4-3P3010S23	1029892

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0 m ... 4 m
- **Functional principle:** Through-beam photoelectric sensor
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable with connector M8, 3-pin ¹⁾	WSE4-3E3130	1028174
		Cable, 3-wire, 2 m ¹⁾	WSE4-3E1330	1028172
		Connector M8, 3-pin	WSE4-3E2130	1028175
	PNP	Cable with M12 male connector, 4-pin ¹⁾	WSE4-3F3430	1044346
		Cable with connector M8, 3-pin ¹⁾	WSE4-3F3130	1028170
		Cable, 3-wire, 2 m ¹⁾	WSE4-3F1330	1028168
		Connector M8, 3-pin	WSE4-3F2130	1028171
			WSE4-3F2131	1041132
Light switching	NPN	Cable with connector M8, 3-pin ¹⁾	WSE4-3N3130	1028166
		Cable, 3-wire, 2 m ¹⁾	WSE4-3N1330	1028164
		Connector M8, 3-pin	WSE4-3N2130	1028167
	PNP	Cable with connector M8, 3-pin ¹⁾	WSE4-3P3130	1028161
			WSE4-3P3131	1029898
		Cable, 3-wire, 2 m ¹⁾	WSE4-3P1330	1028159
		Cable, 3-wire, 5 m ¹⁾	WSE4-3P1430	1029645
		Connector M8, 3-pin	WSE4-3P2130	1028163
Light/dark switching	PNP	Male connector M8, 4-pin	WSE4-3P2230	1028160
			WSE4C-3P2230A00	1080936
			WSE4C-3P2230A70	1080937
			WSE4C-3P2230A71	1080938

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0 m ... 1.5 m
- **Functional principle:** Through-beam photoelectric sensor
- **Switching mode:** Light switching
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
NPN	Cable, 3-wire, 2 m ¹⁾	WSE4S-3P1330HS01	1054973
PNP	Connector M8, 3-pin	WSE4-3P2130S03	1066598

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0 m ... 0.9 m
- **Functional principle:** Through-beam photoelectric sensor
- **Switching mode:** Light/dark switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Male connector M8, 4-pin	Rectangular	WSE4-3P2230S02	1043260

- **Sensing range max.:** 4 mm ... 180 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable, 3-wire, 2 m ¹⁾	WTB4S-3E1361	1042047
	PNP	Connector M8, 3-pin	WTB4S-3F2161	1042044
Light switching	NPN	Cable, 3-wire, 2 m ¹⁾	WTB4S-3N1361	1042046
			WTB4S-3N1361P01	1103888
		Connector M8, 3-pin	WTB4S-3N2161	1042045
	PNP	Cable with connector M8, 3-pin ¹⁾	WTB4S-3P3161	1042042
		Cable, 3-wire, 2 m ¹⁾	WTB4S-3P1361	1042043
		Connector M8, 3-pin	WTB4S-3P2161	1042040

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.7 Nm.

³⁾ Max. tightening torque: 0.6 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
Light/dark switching	PNP	Cable with M12 male connector, 4-pin, 150 mm	WTB4SC-3P3462A00	1117403
		Cable with M12 male connector, 4-pin ¹⁾	WTB4S-3P3461	1044809
			WTB4S-3P3462	1051374
		Cable with M12 male connector, 4-pin ^{1) 2)}	WTB4SC-3P3462VA00	1097823
		Cable with M8 male connector, 4-pin	WTB4S-3P3261	1064142
		Male connector M12, 4-pin ²⁾	WTB4SC-3P2462VA00	1097825
		Male connector M8, 4-pin	WTB4S-3K2261	1047804
			WTB4S-3P2261	1042041
			WTB4S-3P2262	1070222
			WTB4SC-3P2262A00	1042033
			WTB4SC-3P2262A70	1067756
			WTB4SC-3P2262A71	1067757
			WTB4SC-3P2262A73	1093610
			WTB4SC-3P2262A91	1067758
			WTB4SC-3P2262B03	1099918
			WTB4SC-3P2262VA00	1097824
			WTB4SC-3P5232HA00	1097836
		Male connector M8, 4-pin ³⁾		

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.7 Nm.

³⁾ Max. tightening torque: 0.6 Nm.

- **Sensing range max.:** 4 mm ... 120 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable, 3-wire, 2 m ¹⁾	WTB4S-3E1331	1042064
	PNP	Cable with connector M8, 3-pin ^{1) 2)}	WTB4S-3F3132V	1046401
		Connector M8, 3-pin	WTB4S-3F2131	1042060
		Connector M8, 3-pin ²⁾	WTB4S-3F2132V	1046404
Light switching	NPN	Cable with connector M8, 3-pin ¹⁾	WTB4S-3N3132	1074980
		Cable, 3-wire, 2 m ¹⁾	WTB4S-3N1331	1042062
			WTB4S-3N1332	1042055
		Cable, 4-wire, 2 m ¹⁾	WTB4S-3N1132	1051563

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
			WTB4S-3N1134	1042052
		Cable, 4-wire, 5 m ¹⁾	WTB4T-3N1264	1028092
		Connector M8, 3-pin	WTB4S-3N2131	1042061
		Connector M8, 3-pin ²⁾	WTB4S-3N2132V	1046405
	PNP	Cable with M12 male connector, 4-pin ^{1) 3)}	WTB4S-3P3434V	1048016
			WTB4S-3P3435V	1046407
		Cable with M8 male connector, 4-pin ¹⁾	WTB4S-3P3234	1042051
			WTB4S-3P3234H	1048097
		Cable with M8 male connector, 4-pin ^{1) 2)}	WTB4S-3P3235H	1048100
			WTB4S-3P3131	1042058
		Cable with connector M8, 3-pin ¹⁾	WTB4S-3P3132	1042054
			WTB4S-3P3132V	1046400
		Cable with connector M8, 3-pin ^{1) 2)}	WTB4S-3P1331	1042059
			WTB4S-3P1332	1052284
		Cable, 3-wire, 2 m ¹⁾	WTB4S-3P1035VS06	1051749
			WTB4S-3P1264	1028091
		Cable, 4-wire, 10 m ¹⁾	WTB4S-3P2131	1042056
			WTB4S-3P2132	1042053
		Cable, 4-wire, 5 m ¹⁾	WTB4S-3P2132V	1046397
			WTB4S-3P2432V	1054672
		Connector M8, 3-pin ²⁾	WTB4S-3P2234	1042050
			WTB4S-3P2234S07	1058763
		Male connector M12, 4-pin ³⁾	WTB4S-3P2234VS10	1058488
			WTB4S-3P2235V	1045093
		Male connector M8, 4-pin ²⁾	WTB4S-3P2235VS07	1053760

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
Light/dark switching	NPN	Cable, 4-wire, 2 m ¹⁾	WTB4S-3N1131	1042063
			WTB4S-3N1132H	1048098
			WTB4S-3N1132V	1046403
		Male connector M12, 4-pin ³⁾	WTB4S-3N2432V	1054674
		Male connector M8, 4-pin	WTB4S-3N2232	1051872
	PNP	Cable with M12 male connector, 4-pin ¹⁾	WTB4S-3P3431	1055059
			WTB4S-3P3432	1051373
		Cable with M12 male connector, 4-pin ^{1) 3)}	WTB4S-3P3432V	1046399
		Cable with M8 male connector, 4-pin ^{1) 2)}	WTB4S-3P3232H	1048096
			WTB4S-3P3232V	1046398
			WTB4SC-3P3232H	1048099
		Cable, 4-wire, 2 m ¹⁾	WTB4S-3P1132V	1046402
		Cable, 4-wire, 5 m ¹⁾	WTB4S-3P1232V	1052411
		Male connector M8, 4-pin	WTB4S-3P2231	1042057
			WTB4S-3P2232	1054282
			WTB4SC-3P2232A00	1042049
		Male connector M8, 4-pin ²⁾	WTB4S-3P2232V	1046396
			WTB4S-3P5232H	1054864

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

- **Sensing range max.:** 4 mm ... 500 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	PNP	Cable with connector M8, 3-pin ^{1) 2)}	WTB4S-3F3162V	1046390
		Connector M8, 3-pin ¹⁾	WTB4S-3F2162V	1046389
		Male connector M8, 4-pin ¹⁾	WTB4S-3F2265V	1048208

¹⁾ Max. tightening torque: 0.6 Nm.

²⁾ Do not bend below 0 °C.

³⁾ Max. tightening torque: 0.7 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
Light switching	NPN	Cable, 3-wire, 2 m ²⁾	WTB4S-3N1362V	1046393
		Connector M8, 3-pin ¹⁾	WTB4S-3N2162V	1046392
		Male connector M8, 4-pin ¹⁾	WTB4S-3N2265V	1047620
	PNP	Cable with M12 male connector, 4-pin ^{2) 3)}	WTB4S-3P3464V	1048015
			WTB4S-3P3465V	1046394
		Cable with M8 male connector, 4-pin ²⁾	WTB4S-3P3264S13	1123076
		Cable with M8 male connector, 4-pin ^{1) 2)}	WTB4S-3P3264H	1048047
			WTB4S-3P3265H	1048102
		Cable with connector M8, 3-pin ^{1) 2)}	WTB4S-3P3162V	1046387
		Cable, 4-wire, 2 m ²⁾	WTB4S-3P1165H	1086062
		Connector M8, 3-pin ¹⁾	WTB4S-3P2162V	1046384
		Male connector M12, 4-pin ³⁾	WTB4S-3P2465V	1096885
		Male connector M8, 4-pin ¹⁾	WTB4S-3P2264V	1047651
			WTB4S-3P2265V	1045091
Light/dark switching	NPN	Cable, 4-wire, 2 m ²⁾	WTB4S-3N1162H	1048095
			WTB4S-3N1162V	1046391
		Male connector M12, 4-pin ³⁾	WTB4S-3N2462V	1054703
	PNP	Cable with M12 male connector, 4-pin ^{2) 3)}	WTB4S-3P3462V	1046386
			WTB4S-3P3462VS15	1098603
		Cable with M8 male connector, 4-pin ^{1) 2)}	WTB4S-3P3262H	1048094
			WTB4S-3P3262V	1046385
		Cable, 4-wire, 2 m ²⁾	WTB4S-3P1162H	1051983
			WTB4S-3P1162V	1046388
		Cable, 4-wire, 5 m ²⁾	WTB4S-3P1262H	1117988
			WTB4S-3P1262V	1100117
		Male connector M12, 4-pin ¹⁾	WTB4SC-3P2462VB02	1134582
		Male connector M12, 4-pin ³⁾	WTB4S-3P2462V	1054675
		Male connector M8, 4-pin ¹⁾	WTB4S-3P2262V	1046383
			WTB4S-3P5262H	1099888
			WTB4SC-3P2262VB01	1115584

¹⁾ Max. tightening torque: 0.6 Nm.

²⁾ Do not bend below 0 °C.

³⁾ Max. tightening torque: 0.7 Nm.

- **Sensing range max.:** 100 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Dark switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable with connector M8, 3-pin	Rectangular	WTB4S-3F3160S12	1062834

- **Sensing range max.:** 4 mm ... 280 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching output:** PNP
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Connection type	Type	Part no.
Dark switching	Male connector M8, 4-pin ¹⁾	WTB4S-3F2234VS08	1053075
Light switching	Cable with M8 male connector, 4-pin ²⁾	WTB4S-3P3234S04	1050600
	Cable with M8 male connector, 4-pin ^{1) 2)}	WTB4S-3P3204HS01	1048532
	Male connector M8, 4-pin ¹⁾	WTB4S-3P2204VS02	1047652
		WTB4S-3P2205VS01	1046214
		WTB4S-3P2234VS05	1050833
		WTB4S-3P5204HS02	1054865
Light/dark switching	Cable with M8 male connector, 4-pin	WTB4SC-3P3232S10	1079436
	Male connector M12, 4-pin ³⁾	WTB4S-3P2402VS09	1054706

¹⁾ Max. tightening torque: 0.6 Nm.

²⁾ Do not bend below 0 °C.

³⁾ Max. tightening torque: 0.7 Nm.

- **Sensing range max.:** 8 mm ... 120 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light/dark switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Male connector M8, 4-pin	Rectangular	WTB4SC-3P2232B02	1088195

- **Sensing range max.:** 4 mm ... 100 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light/dark switching
- **Switching output:** PNP
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with M8 male connector, 4-pin ¹⁾	WTB4S-3P3231S09	1063276
Male connector M8, 4-pin	WTB4S-3P2264S03	1046255

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 3 mm ... 280 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light/dark switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable with M12 male connector, 4-pin ¹⁾	Rectangular	WTB4S-3P3432S05	1051765

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 3 mm ... 120 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable with M8 male connector, 4-pin ¹⁾	Rectangular	WTB4S-3P3260S02	1044275

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 30 mm ... 100 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light switching
- **Switching output:** NPN

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable, 4-wire, 2.5 m ¹⁾	Rectangular	WTB4S-3N1061S14	1095761

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 3 mm ... 100 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Foreground suppression
- **Switching mode:** Light/dark switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable with M8 male connector, 4-pin ¹⁾	Rectangular	WTF4S-3P3231S08	1061140

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0 m ... 4 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable, 3-wire, 2 m ¹⁾	WL4S-3E1330	1042072
			WL4S-3E1330V	1046420
		Connector M8, 3-pin	WL4S-3E2130	1042071
		Connector M8, 3-pin ²⁾	WL4S-3E2130V	1045097
	PNP	Cable with M12 male connector, 4-pin ¹⁾	WL4S-3F3430S01	1053409
		Cable with connector M8, 3-pin ¹⁾	WL4S-3F3130	1042067
			WL4S-3F3130S04	1056053
		Cable with connector M8, 3-pin ^{1) 2)}	WL4S-3F3130V	1046416
		Cable, 3-wire, 2 m ¹⁾	WL4S-3F1330V	1046417
		Connector M8, 3-pin	WL4S-3F2130	1042065
		Connector M8, 3-pin ²⁾	WL4S-3F2130V	1045096
		Cable, 3-wire, 2 m ¹⁾	WL4S-3N1330	1042073
			WLG4S-3N1332S12	1129078
Light switching	NPN	Cable with connector M8, 3-pin ¹⁾	WL4S-3P3130	1042070
			WL4S-3P3130V	1046414
	PNP	Cable with connector M8, 3-pin ^{1) 2)}	WL4S-3P1330V	1048044
		Connector M8, 3-pin	WL4S-3P2130	1042069
		Connector M8, 3-pin ²⁾	WL4S-3P2130V	1046413
		Cable, 3-wire, 2 m ¹⁾	WL4S-3P1330V	1048044

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
Light/dark switching	NPN	Cable, 4-wire, 2 m ¹⁾	WL4S-3N1130H	1048116
			WL4S-3N1130V	1046418
		Male connector M12, 4-pin ³⁾	WL4S-3N2430V	1054712
	PNP	Cable with M12 male connector, 4-pin ^{1) 3)}	WL4S-3P3430V	1046415
		Cable with M8 male connector, 4-pin	WL4S-3P3230	1073200
		Cable with M8 male connector, 4-pin ^{1) 2)}	WL4S-3P3230H	1048115
		Male connector M12, 4-pin ³⁾	WL4S-3P2430V	1054707
		Male connector M8, 4-pin	WL4S-3P2230	1042066
			WL4S-3P2230S02	1054695
		Male connector M8, 4-pin ²⁾	WL4S-3P2230V	1045095
			WL4S-3P5230H	1057052

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

- **Sensing range max.:** 0 m ... 5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable with connector M8, 3-pin ¹⁾	WL4S-3E3132	1074981
			WL4S-3E1332	1042081
		Cable, 3-wire, 2 m ¹⁾	WL4S-3E1332V	1046437
			WL4S-3W1132	1042083
			WLG4S-3E1134H	1048124
			WLG4S-3E1134V	1048027
			WLG4S-3E1135V	1046438
		Connector M8, 3-pin	WL4S-3E2132	1042080

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
	PNP	Connector M8, 3-pin ²⁾	WL4S-3E2132V	1046435
		Cable with M12 male connector, 4-pin ^{1) 3)}	WLG4S-3F3434V	1048024
			WLG4S-3F3435V	1062552
		Cable with M8 male connector, 4-pin ^{1) 2)}	WLG4S-3F3234H	1048121
			WLG4S-3P3232HS03	1053364
			WLG4S-3V3232H	1048122
		Cable with connector M8, 3-pin ¹⁾	WL4S-3F3132	1042075
		Cable with connector M8, 3-pin ^{1) 2)}	WL4S-3F3132V	1046429
		Cable, 3-wire, 2 m ¹⁾	WL4S-3F1332V	1046430
		Cable, 3-wire, 5 m ¹⁾	WL4S-3F1432V	1055380
		Cable, 4-wire, 2 m ¹⁾	WL4S-3V1132	1069132
		Connector M8, 3-pin ²⁾	WL4S-3F2132V	1046428
		Male connector M12, 4-pin ^{1) 3)}	WLG4S-3F2434V	1054727
		Male connector M8, 4-pin	WL4S-3V2232	1042079
			WLG4SC-3P2232S12	1080804
		Male connector M8, 4-pin ²⁾	WL4S-3V2232V	1046422
			WLG4S-3F2234V	1047653
			WLG4S-3F2234VS04	1050832
			WLG4S-3F2235V	1045098
			WLG4S-3V2232V	1046447
Light switching	NPN	Cable, 3-wire, 2 m ¹⁾	WL4S-3N1332	1042082
		Connector M8, 3-pin ²⁾	WL4S-3N2132V	1046432
	PNP	Cable with M8 male connector, 4-pin	WLG4SC-3P3235HS05	1070621
		Cable with connector M8, 3-pin ¹⁾	WL4S-3P3132	1044802
		Cable with connector M8, 3-pin ^{1) 2)}	WL4S-3P3132V	1046425
		Cable, 3-wire, 2 m ¹⁾	WL4S-3P1332V	1046427
		Connector M8, 3-pin	WL4S-3P2132	1042077
		Connector M8, 3-pin ²⁾	WL4S-3P2132V	1046424
		Male connector M8, 4-pin ²⁾	WLG4S-3P2234V	1051456
			WLG4S-3P2234VS05	1058027
			WLG4S-3P2235V	1069744
			WLG4S-3P5234HS06	1102183

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
Light/dark switching	NPN	Cable, 4-wire, 2 m ¹⁾	WL4S-3N1132H	1048119
			WL4S-3N1132V	1046431
			WLG4S-3N1132V	1046450
		Male connector M12, 4-pin ³⁾	WL4S-3N2432V	1054722
		Male connector M12, 4-pin ^{1) 3)}	WLG4S-3N2432V	1054728
	PNP	Cable with M12 male connector, 4-pin ^{1) 3)}	WL4S-3P3432V	1046426
			WLG4S-3P3432V	1046449
			WLG4SC-3P3432VA00	1097829
		Cable with M8 male connector, 4-pin	WLG4SC-3P3232A00	1131816
		Cable with M8 male connector, 4-pin ¹⁾	WLG4SC-3P3232B01	1070334
Light/dark switching	PNP	Cable with M8 male connector, 4-pin ^{1) 2)}	WL4S-3P3232H	1048117
			WLG4S-3P3232H	1048120
			WLG4S-3P3232HS02	1050665
			WLG4S-3P3232V	1046448
		Cable, 4-wire, 2 m ¹⁾	WLG4S-3P1132V	1055044
		Cable, 4-wire, 5 m ¹⁾	WL4S-3P1032HS01	1050684
			WL4S-3P1032HS02	1089545
			WLG4S-3P1232V	1088867
		Connector M8, 3-pin ²⁾	WLG4S-3P5132HS04	1058974
		Male connector M12, 4-pin ³⁾	WL4S-3P2432V	1054715

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
		Male connector M12, 4-pin ^{1) 3)}	WLG4S-3P2432V	1054725
			WLG4SC-3P2432VA00	1090947
		Male connector M8, 4-pin	WL4S-3P2232	1042078
			WL4SC-3P2232A00	1065315
			WL4SC-3P2232A70	1067760
			WL4SC-3P2232A71	1067761
			WL4SC-3P2232A72	1088640
			WL4SC-3P2232A91	1067762
			WLG4SC-3P2232A00	1057177
			WLG4SC-3P2232A70	1067763
			WLG4SC-3P2232A71	1067765
			WLG4SC-3P2232A91	1067766
		Male connector M8, 4-pin ²⁾	WL4S-3P2232V	1046421
			WLG4S-3P2232V	1046446
			WLG4S-3P2232VS03	1050831
			WLG4S-3P2232VS07	1051943
			WLG4S-3P2234VS06	1069434
			WLG4S-3P5232H	1057053
			WLG4SC-3P2232VA00	1097830
			WLG4SC-3P5232HA00	1090378

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

- **Sensing range max.:** 0 m ... 5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Switching mode:** Light/dark switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Cable with M8 male connector, 4-pin ¹⁾	Rectangular	WL4SC-3P3232B02	1104554

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0 m ... 5 m
- **Functional principle:** Through-beam photoelectric sensor
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable with connector M8, 3-pin ¹⁾	WSE4S-3E3130H	1048131
		Cable, 3-wire, 2 m ¹⁾	WSE4S-3E1330	1042093
				1052867
			WSE4S-3E1330H	1052868
				1048130
			WSE4S-3E1330V	1052869
		Connector M8, 3-pin	WSE4S-3E2130	1042092
				1052876
		Connector M8, 3-pin ²⁾	WSE4S-3E2130V	1052877
	PNP	Cable with M12 male connector, 4-pin ¹⁾	WSE4S-3F3430	1051883
				1052884
		Cable with M12 male connector, 4-pin ^{1) 3)}	WSE4S-3F3430V	1052885
			WSE4SC-3P3430VA00	1097831
		Cable with connector M8, 3-pin ¹⁾	WSE4S-3F3130	1042089
				1052881
			WSE4S-3F3130H	1048128
		Cable with connector M8, 3-pin ^{1) 2)}	WSE4S-3F3130H	1052882
			WSE4S-3F3130V	1052883
		Cable, 3-wire, 2 m ¹⁾	WSE4S-3F1330	1042090
				1052879
			WSE4S-3F1330V	1052880
		Connector M8, 3-pin	WSE4S-3F2130	1042088
				1052890
		Connector M8, 3-pin ²⁾	WSE4S-3F2130V	1052891

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
Light switching	NPN	Cable, 3-wire, 2 m ¹⁾	WSE4S-3N1330	1042094
				1052872
			WSE4S-3N1330H	1048129
			WSE4S-3N1330V	1052874
		Connector M8, 3-pin ²⁾	WSE4S-3N2130V	1052878
	PNP	Cable with M8 male connector, 4-pin ^{1) 2)}	WSE4S-3P3230V	1061108
		Cable with connector M8, 3-pin ¹⁾	WSE4S-3P3130H	1048127
		Cable with connector M8, 3-pin ^{1) 2)}	WSE4S-3P3130H	1052888
			WSE4S-3P3130V	1052889
		Cable, 3-wire, 2 m ¹⁾	WSE4S-3P1330H	1052886
				1051980
			WSE4S-3P1330V	1052887
		Cable, 3-wire, 5 m ¹⁾	WSE4S-3P1430V	1058184
		Cable, 4-wire, 10 m ¹⁾	WSE4S-3P1030VS02	1059404
		Connector M8, 3-pin	WSE4S-3P2130	1042091
				1052892
		Connector M8, 3-pin ²⁾	WSE4S-3P2130V	1052893
		Male connector M8, 4-pin ²⁾	WSE4S-3P2230V	1061815
Light/dark switching	NPN	Male connector M12, 4-pin	WSE4S-3N2430V	1054786
	PNP	Male connector M12, 4-pin ³⁾	WSE4S-3P2430V	1054784
		Male connector M8, 4-pin	WSE4S-3K2236	1074138
			WSE4S-3P2230	1067843
			WSE4SC-3P2230A00	1067767
			WSE4SC-3P2230A70	1067768
			WSE4SC-3P2230A91	1067770
			WSE4SC-3P2230S03	1078552
		Male connector M8, 4-pin ^{1) 2)}	WSE4S-3P5230H	1054896

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

- **Sensing range max.:** 0 m ... 2 m
- **Functional principle:** Through-beam photoelectric sensor
- **Switching mode:** Light/dark switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
PinPoint LED	Visible red light	Male connector M8, 4-pin	Rectangular	WSE4SC-3P2230S04	1079435

- **Sensing range max.:** 0 m ... 3 m
- **Functional principle:** Through-beam photoelectric sensor
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Connection type:** Cable, 3-wire, 5 m (Do not bend below 0 °C.)
- **Housing:** rectangular

Switching mode	Switching output	Type	Part no.
Dark switching	NPN	WSE4T-3E1430	1029648
	PNP	WSE4T-3F1430	1029647
Light switching	NPN	WSE4T-3N1430	1102467
	PNP	WSE4T-3P1430	1029646

- **Sensing range max.:** 0.01 m ... 1.6 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable, 3-wire, 2 m ¹⁾	WLG4-3E1382	1028138
		Cable, 4-wire, 2 m ¹⁾	WLG4-3E1184	1028140
	PNP	Cable with connector M8, 3-pin ¹⁾	WLG4-3F3182	1028135
		Connector M8, 3-pin	WLG4-3F2182	1028134
		Male connector M8, 4-pin	WLG4-3F2284	1028137
Light switching	NPN	Cable, 3-wire, 2 m ¹⁾	WLG4-3N1382	1040493
	PNP	Cable, 3-wire, 5 m ¹⁾	WLG4-3P1482	1029897
		Connector M8, 3-pin	WLG4-3P2182	1044179

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0.01 m ... 4 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Switching output:** PNP
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Connection type	Type	Part no.
Dark switching	Cable with M8 male connector, 4-pin ¹⁾	WLG4-3F3234S05	1043538
Light switching	Connector M8, 3-pin	WLG4-3P2132S07	1060007

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0.01 m ... 1.5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Switching mode:** Dark switching
- **Switching output:** PNP
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Connection type	Type	Part no.
Cable with connector M8, 3-pin ¹⁾	WLG4-3F3182S06	1044190
Cable, 3-wire, 5 m ¹⁾	WLG4-3F1482S04	1042291

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0.01 m ... 5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable with MOLEX-connector ¹⁾	WLG4S-3W3032S13	1091964
		Cable, 4-wire, 2 m ¹⁾	WLG4S-3E1134	1042085
			WLG4S-3W1132	1042086
		Cable with special connector, 3-wire ¹⁾	WLG4S-3E1334S03	1055060
	PNP	Cable with M8 male connector, 4-pin ¹⁾	WLG4S-3F3234	1043840
		Cable with connector M12, 3-pin ¹⁾	WLG4S-3F3332	1059718
		Cable with connector M8, 3-pin ¹⁾	WLG4S-3F3132	1043838
		Cable, 4-wire, 2 m ¹⁾	WLG4S-3V1132	1055895
		Male connector M8, 4-pin	WLG4S-3F2234	1042084
			WLG4S-3V2232	1042087

¹⁾ Do not bend below 0 °C.

Switching mode	Switching output	Connection type	Type	Part no.
Light switching	NPN	Cable with special connector ¹⁾	WLG4S-3N1332A01	1047821
		Cable, 3-wire, 2 m ¹⁾	WLG4S-3N1332	1046111
	PNP	Cable with M12 male connector, 4-pin ¹⁾	WLG4S-3P3434	1046819
		Cable with M8 male connector, 4-pin ¹⁾	WLG4S-3P3234	1054098
		Cable with connector M8, 3-pin ¹⁾	WLG4S-3P3132	1043839
		Male connector M8, 4-pin	WLG4S-3P2234	1052999
Light/dark switching	NPN	Cable with M12 male connector, 4-pin ¹⁾	WLG4S-3N3432	1052210
		Cable with M12 male connector, 4-pin ¹⁾	WLG4S-3K3432	1106887
	PNP	Cable with M12 male connector, 4-pin ¹⁾	WLG4S-3P3432	1051097
		Cable with M8 male connector, 4-pin ¹⁾	WLG4S-3P3232	1052963
		Male connector M8, 4-pin	WLG4S-3K2232	1069998
			WLG4S-3P2232	1044186

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 25 mm ... 300 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** laser
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Light switching	PNP	Cable with connector M8, 3-pin ¹⁾	WTB4SL-3P3161	1075216
		Male connector M8, 4-pin ²⁾	WTB4SL-3P5264H	1103456
Light/dark switching	NPN	Cable with M8 male connector, 4-pin ¹⁾	WTB4SL-3N3261	1058241
		Cable, 4-wire, 2 m ¹⁾	WTB4SL-3N1161	1058242
			WTB4SL-3N1162V	1058257

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

Switching mode	Switching output	Connection type	Type	Part no.
			WTB4SL-3N4162H	1058275
		Male connector M12, 4-pin	WTB4SL-3N2462V	1058254
		Male connector M8, 4-pin	WTB4SL-3N2261	1058240
		Male connector M8, 4-pin ²⁾	WTB4SL-3N2262V	1058252
	PNP	Cable with M12 male connector, 4-pin ^{1) 3)}	WTB4SL-3P3462V	1058255
		Cable with M8 male connector, 4-pin ¹⁾	WTB4SL-3P3261	1058238
			WTB4SL-3P3262H	1096530
		Cable with M8 male connector, 4-pin ^{1) 2)}	WTB4SL-3P7262H	1058272
		Cable, 4-wire, 2 m ¹⁾	WTB4SL-3P1161	1058239
			WTB4SL-3P1162V	1058256
			WTB4SL-3P4162H	1058274
		Cable, 4-wire, 5 m ¹⁾	WTB4SL-3P4262H	1127818
		Male connector M12, 4-pin	WTB4SL-3P2462V	1058253
		Male connector M8, 4-pin	WTB4SL-3P2261	1058237
			WTB4SLC-3P2262A00	1080939
			WTB4SLC-3P2262A70	1080940
			WTB4SLC-3P2262A71	1080941
		Male connector M8, 4-pin ²⁾	WTB4SL-3P2262V	1058251
			WTB4SL-3P2264VS01	1070085
			WTB4SL-3P5262H	1058271

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

- **Sensing range max.:** 0 m ... 12 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Light source:** laser
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	NPN	Cable, 4-wire, 2 m ¹⁾	WL4SL-3E1134	1061566
	PNP	Cable with M8 male connector, 4-pin ¹⁾	WL4SL-3F3234	1061564
		Male connector M8, 4-pin	WL4SL-3F2234	1061562
Light switching	NPN	Cable with connector M8, 3-pin ¹⁾	WL4SL-3N3132S03	1092001
Light/dark switching	NPN	Cable, 4-wire, 2 m ¹⁾	WL4SL-3N1132	1061565
	PNP	Cable with M8 male connector, 4-pin ¹⁾	WL4SL-3F3232	1106888
			WL4SL-3P3232	1061563
		Male connector M8, 4-pin	WL4SL-3F2232	1076420
			WL4SL-3P2232	1061561
			WL4SLC-3P2232A00	1080945
			WL4SLC-3P2232A70	1080947
			WL4SLC-3P2232A71	1080949
			WL4SLC-3P2232A72	1098509

¹⁾ Do not bend below 0 °C.

- **Sensing range max.:** 0 m ... 60 m
- **Functional principle:** Through-beam photoelectric sensor
- **Switching mode:** Light/dark switching
- **Light source:** laser
- **Type of light:** visible red light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
NPN	Cable, 4-wire, 2 m ¹⁾	WSE4SL-3N1137	1058250
		WSE4SL-3N1137V	1058270

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.7 Nm.

³⁾ Max. tightening torque: 0.6 Nm.

Switching output	Connection type	Type	Part no.
PNP	Cable with M8 male connector, 4-pin ¹⁾	WSE4SL-3P3237	1095976
	Cable, 4-wire, 2 m ¹⁾	WSE4SL-3P1137V	1115139
	Male connector M12, 4-pin ²⁾	WSE4SL-3P2437V	1058269
	Male connector M8, 4-pin	WSE4SL-3P2237	1058249
		WSE4SLC-3P2236A00	1080957
		WSE4SLC-3P2236A70	1080959
		WSE4SLC-3P2236A71	1080961
	Male connector M8, 4-pin ³⁾	WSE4SL-3P2237V	1058267
		WSE4SL-3P5237H	1092532

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.7 Nm.

³⁾ Max. tightening torque: 0.6 Nm.

- **Sensing range max.:** 0 m ... 4.5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Switching mode:** Light/dark switching
- **Light source:** laser
- **Type of light:** visible red light
- **Housing:** rectangular

Switching output	Connection type	Type	Part no.
NPN	Cable, 4-wire, 2 m ¹⁾	WL4SLG-3N1132	1058247
		WL4SLG-3N1162P01	1101033
PNP	Cable with M8 male connector, 4-pin ^{1) 2)}	WL4SLG-3P3232H	1068109
	Male connector M12, 4-pin ³⁾	WL4SLG-3K2432VS01	1065697
	Male connector M8, 4-pin	WL4SLG-3F2232	1132822
		WL4SLG-3P2232	1058243
	Male connector M8, 4-pin ²⁾	WL4SLG-3P5234HS03	1110468

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

- **Sensing range max.:** 0 m ... 3.5 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Light source:** laser
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Switching output	Connection type	Type	Part no.
Dark switching	PNP	Cable with M8 male connector, 4-pin ^{1) 2)}	WL4SLG-3F7254H	1076066
		Male connector M8, 4-pin ¹⁾	WL4SLG-3F2254V	1076059
			WL4SLG-3F5254H	1076064
Light switching	PNP	Male connector M8, 4-pin ¹⁾	WL4SLG-3P2254V	1076061
			WL4SLG-3P5254H	1109333
Light/dark switching	NPN	Cable, 4-wire, 2 m	WL4SLG-3N1152	1076053
	PNP	Cable with M12 male connector, 4-pin ¹⁾	WL4SLG-3P3452V	1076057
		Cable with M8 male connector, 4-pin	WL4SLGC-3P3052B01	1119068
		Male connector M8, 4-pin	WL4SLG-3P2252	1076046
			WL4SLGC-3P2252A00	1080951
			WL4SLGC-3P2252A70	1080953
			WL4SLGC-3P2252A71	1080955
		Male connector M8, 4-pin ¹⁾	WL4SLG-3P5252H	1076062

¹⁾ Max. tightening torque: 0.6 Nm.

²⁾ Do not bend below 0 °C.

- **Sensing range max.:** 20 mm ... 200 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Foreground suppression
- **Switching output:** PNP
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

Switching mode	Connection type	Type	Part no.
Light switching	Cable with M8 male connector, 4-pin ¹⁾	WTF4S-3P3264H	1048109
	Male connector M8, 4-pin ²⁾	WTF4S-3P2205VS02	1046742
		WTF4S-3P2265V	1045094
Light/dark switching	Cable, 4-wire, 5 m ¹⁾	WTF4S-3P3232HS03	1050933
	Male connector M12, 4-pin ²⁾	WTF4S-3P2462V	1072453
	Male connector M8, 4-pin ²⁾	WTF4S-3P2262V	1046410

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

- **Sensing range max.:** 40 mm ... 200 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching mode:** Light/dark switching
- **Switching output:** PNP

Light source	Type of light	Connection type	Housing	Type	Part no.
Laser	Visible red light	Male connector M8, 4-pin ¹⁾	Rectangular	WTB4SL-3P2264VS02	1095525

¹⁾ Max. tightening torque: 0.6 Nm.

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