



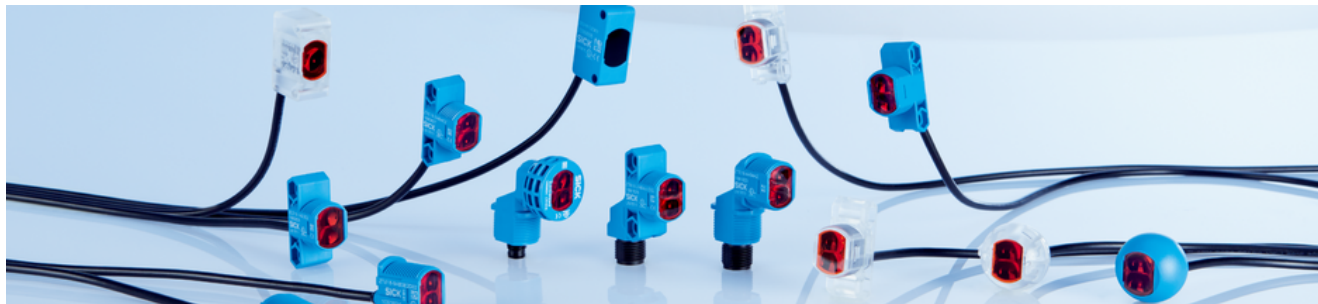
# SimpleSense

The cost-effective detection solution

PHOTOELECTRIC SENSORS

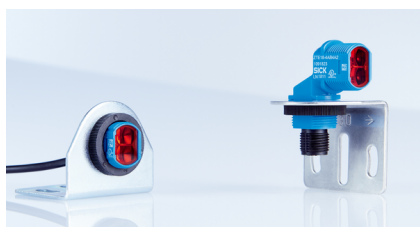
**SICK**  
Sensor Intelligence.

### Numerous housing and mounting options

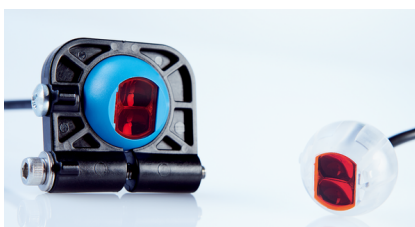


## Flexible sensor for countless logistics applications

Whether the housing is hybrid, cylindrical or cuboid, whether with integrated M18 thread or basic mount: The SimpleSense product family includes a wide range of housing shapes and, thanks to numerous mounting options, can be flexibly adapted to the respective on-site requirements. This makes these sensors the ideal economical and reliable detection solution for all types of logistics applications, regardless of the type of system and installation situation.



Easy to integrate into various types of systems thanks to M18 standard thread.



Stepless alignment of the optics thanks to the ball-shaped housing.



Fits into a wide variety of system designs thanks to straight or angled cable outlet.



**Easy integration: Thanks to the wide range of housing variants and mounting options, the sensors can be mounted in all types of plants with speed and flexibility.**

### Reliable performance



## High cost-effectiveness combined with reliable performance

The level of performance that has come to be expected of SICK does not have to be sacrificed at close range either: The SimpleSense sensors offer high ambient light immunity, they are reliable, and they are unlikely to suffer from interference.

**There is no chance of the sensors being adjusted inadvertently, as they have been reduced to the essentials. In addition, SimpleSense devices reduce downtime and impress with an excellent price-performance ratio.**



Through-beam photoelectric sensors for door and gate protection.



Photoelectric retro-reflective sensors for applications on roller conveyors.



**Z18: The reliable and cost-effective solution for standard applications at close range: SimpleSense photoelectric sensors offer maximum optical performance in a miniature size.**



### Technical data overview

<b>Dimensions (W x H x D)</b>	13.6 mm x 34.8 mm x 21.9 mm 13.6 mm x 42.9 mm x 33.3 mm 13.6 mm x 40.8 mm x 33.3 mm 13.6 mm x 44.2 mm x 33.3 mm 13.6 mm x 31 mm x 22.4 mm 23.3 mm x 24 mm x 26 mm 14.4 mm x 20.5 mm x 23 mm 13.6 mm x 34.8 mm x 23 mm 13.6 mm x 45.1 mm x 31.7 mm 24 mm x 42.6 mm x 33.3 mm 24 mm x 44.7 mm x 33.3 mm 14.4 mm x 18 mm x 23 mm 13.6 mm x 41.7 mm x 31.7 mm
<b>Light source</b>	LED / PinPoint LED (depending on type)
<b>Type of light</b>	Infrared light / visible red light (depending on type)
<b>Enclosure rating</b>	IP67
<b>Housing material</b>	Plastic
<b>Adjustment</b>	None

### Product description

The Z18 SimpleSense sensors are the ideal detection solution for standard applications at close range. With a wide range of housing options, mounting options, and sensor principles, the hybrid photoelectric sensors are suitable for all kinds of detection environments. The sensors are easy to mount and can also be integrated into existing plants and systems without any problems – including where space is at a premium – thanks to their miniature format. This combination of outstanding performance with maximum cost-effectiveness makes the Z18 SimpleSense sensors the ideal solution wherever reliable presence detection is required.

### At a glance

- Modern OES4 ASIC technology for excellent optical performance and ambient light immunity
- Housing formats: Cylindrical (with M18 thread), cuboid, and hybrid
- Wide range of mounting options
- Programmable switching outputs
- No protection class II power supply unit required

### Your benefits

- The simple and convenient sensor solution for reliable presence detection
- Cost-effective detection: Optimum optical performance in miniature format delivering outstanding value for money
- Minimum downtimes: Simple design means there is no chance of the sensor being adjusted inadvertently
- Flexible in application: Thanks to numerous housing and mounting options, the Z18 SimpleSense can be integrated into all kinds of application environments, including where space is at a premium
- High compatibility: Programmable switching output for easy integration into existing plants
- Low installation costs thanks to quick and easy mounting

### Fields of application

- Standard applications on conveyor belts
- Simple applications in factory automation
- Doors, gates, and turnstiles
- Access gates
- Customer-specific solutions and logistics applications

## Ordering information

Other models and accessories → [www.sick.com/SimpleSense](http://www.sick.com/SimpleSense)

- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
Photoelec- tric proxim- ity sensor, Background suppression	0 ... 150 mm	50 mm	NPN, Light switching	Not connected	Male connec- tor M8, 4-pin	ZTB18-BNZ3A1D02	1118609
			PNP, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZTB18-2FZ1G1D02	1099195
			PNP, Light switching	Not connected	Cable with M12 male connector, 4- pin, 150 mm	ZTB18-APZ4B1D02	1100590
			Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTB18-2AB1G1D02	1095787
		Cable with M12 male connector, 4- pin, 150 mm			ZTB18-2AB4B1D02	1095789	
		Cable with male connector M8, 4-pin, snap, 150 mm			ZTB18-2AB5B1D02	1095791	
		100 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTB18-2AB1G1D04	1095788
					Cable with M12 male connector, 4- pin, 150 mm	ZTB18-2AB4B1D04	1095790
					Cable with male connector	ZTB18-2AB5B1D04	1095792

<sup>1)</sup> Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Type	Part no.
					M8, 4-pin, snap, 150 mm		
Photoelectric proximity sen- sor, Energetic	500 ... 1000 mm	700 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTE18-2AB1G2	1095833
					Cable with M12 male connector, 4- pin, 150 mm	ZTE18-2AB4B2	1095834
					Cable with male connector M8, 4-pin, snap, 150 mm	ZTE18-2AB5B2	1095835

<sup>1)</sup> Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	5 m	-	PNP, Light switching <sup>1)</sup>	Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-2ZHAG8	1124562
			NPN, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-2EZ1G8	1100596
			NPN, Light switching	Not connected	Cable with M12 male connector, 4- pin, 150 mm	ZLD18-ANZ4B8	1096984
					Cable with connector RJ11, 6-pin, 1,000 mm	ZLD18-ANZAE8	1096976
					ZLD18-ANZAE8P10	1096993	
					Cable with connector RJ11, 6-pin, 1,500 mm	ZLD18-ANZAF8	1096978
					ZLD18-ANZAF8P10	1096994	
					Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-ANZAG8	1096979
					ZLD18-ANZAG8P10	1096995	
					Cable with connector RJ11, 6-pin, 2,500 mm	ZLD18-ANZAH8	1096980
					ZLD18-ANZAH8P10	1096996	
					Cable with connector RJ11, 6-pin, 3,000 mm	ZLD18-ANZAK8	1096981
			ZLD18-ANZAK8P10	1096997			
			Cable with con- nector RJ11, 6- pin, 500 mm	ZLD18-ANZAD8	1096975		
ZLD18-ANZAD8P10	1096992						
PNP, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-2FZ1G8	1099303			
			ZLD18-AFZ1G8	1096983			

<sup>1)</sup> Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	5 m	PNP, Dark switching	Not connected	Cable with M12 male connector, 4- pin, 150 mm	ZLD18-AFZ4B8	1096986
						ZLD18-BFZ4B8	1100620
					Cable with M8 male con- nector, 4- pin, 150 mm	ZLD18-AFZ3B8	1100630
						ZLD18-2FZ3G8	1097107
					Cable with M8 male con- nector, 4-pin, 2,000 mm	ZLD18-AFZAG8	1100621
						Male connector M12, 4-pin	ZLD18-BFZ4A8
					Male connec- tor M8, 4-pin		ZLD18-BFZ3A8
						Terminal con- nection Wago 733-103, 3- pin, 2,000 mm	ZLD18-BFZCG8
					ZLD18-BFZCG8P32		1100595
					Terminal con- nection Wago 733-103, 3- pin, 800 mm	ZLD18-1FZC18	1089971

<sup>1)</sup> Open Collector.



Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.		
		5 m	PNP, Dark switching	Not connected	Terminal con- nection Wago 733-103, 4- pin, 2,000 mm	ZLD18-BFZDG8	1100617		
					ZLD18-BFZDG8P32	1100618			
				PNP, Alarm output	Cable with M8 male con- nector, 4- pin, 800 mm	ZLD18-2FT318	1125206		
					Terminal con- nection Wago 733-103, 4- pin, 800 mm	ZLD18-2FTD18	1089969		
			PNP, Health output	Male connector M12, 4-pin	ZLD18-2FR4A8	1099304			
			PNP, Dark switching <sup>1)</sup>	Not connected	Cable with M8 male con- nector, 4-pin, 1,000 mm	ZLD18-2KZ3E8	1097873		
					Cable with M8 male con- nector, 4-pin, 2,000 mm	ZLD18-2KZ3G8	1097874		
					Cable with connector RJ11, 6-pin, 1,000 mm	ZLD18-2KZAE8	1097821		
					Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-2KZAG8	1097820		
					PNP, Health output	Cable with M8 male con- nector, 4-pin, 1,000 mm	ZLD18-2KR3E8	1126948	
						Cable with M8 male con- nector, 4-pin, 2,000 mm	ZLD18-2KR3G8	1126944	
						Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-2KRAG8	1126942	
						Cable with con- nector RJ11, 6- pin, 800 mm	ZLD18-2KRA18	1099219	
					PNP, Light switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-APZ1G8	1096982
							Cable open end, 4-wire, 3,000 mm	ZLD18-APZ1K8	1096988
			Cable with M12 male connector, 4- pin, 150 mm	ZLD18-APZ4B8			1096985		
			Cable with M12 male connector, 4- pin, 2,000 mm	ZLD18-BPZ4G8			1100609		
			Cable with M8 male con- nector, 4- pin, 150 mm	ZLD18-APZ3B8			1096987		

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.		
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	5 m	PNP, Light switching	Not connected	RJ11, 6-pin, 1,000 mm	ZLD18-APZAG8	1096990		
					Cable with connector RJ11, 6-pin, 2,000 mm			ZLD18-APZAK8	1096991
					Male connector M12, 4-pin			ZLD18-2PZ4A8	1099305
				PNP, Dark switching	Not connected	Cable with M8 male con- nector, 4- pin, 150 mm	ZLD18-2PF3B8	1131591	
						Cable with M8 male con- nector, 4-pin, 2,000 mm	ZLD18-2HZ3G8	1127421	
							Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-2HZAG8	1099217
				Push-pull: PNP/NPN, Light switching	Not connected	Cable with connector M8, 3-pin, 150 mm	ZLD18-2AZ2B8	1101160	
						Cable open end, 4-wire, 2,000 mm	ZLD18-2AB1G8	1095736	
							Cable with M12 male connector, 4- pin, 150 mm	ZLD18-2AB4B8	1095737
			Cable with male connector M8, 4-pin, snap, 150 mm				ZLD18-2AB5B8	1095738	

<sup>1)</sup> Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
		7.8 m	NPN, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-2EZ1G2	1099177	
					Cable open end, 4-wire, 2,000 mm	ZLD18-2NZ1G2	1099159	
					Cable with M12 male connector, 4- pin, 150 mm	ZLD18-2FZ4B2	1124136	
						Cable with con- nector RJ11, 6- pin, 150 mm	ZLD18-2FZAB2	1104801
						Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-2FZAG2	1110913
					Terminal con- nection Wago 733-103, 3- pin, 1,000 mm	ZLD18-1FZCE2	1124386	
					Terminal con- nection Wago 733-103, 3- pin, 2,000 mm	ZLD18-1FZCG2	1124387	
					Terminal con- nection Wago 733-103, 3- pin, 3,000 mm	ZLD18-1FZCK2	1124388	
					Terminal con- nection Wago 733-103, 4- pin, 1,000 mm	ZLD18-1FZDE2	1124384	
					Terminal con- nection Wago 733-103, 4- pin, 2,000 mm	ZLD18-1FZDG2	1123163	
		Terminal con- nection Wago 733-103, 4- pin, 3,000 mm	ZLD18-1FZDK2	1124385				
		PNP, Light switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-1PZ1G2	1129030		
					Cable with M12 male connector, 4- pin, 150 mm	ZLD18-1PZ4B2	1129031	
					Cable with connector RJ11, 6-pin, 1,000 mm	ZLD18-APZAE2	1123668	
				Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZLD18-2AB1G2	1095724
							ZLD18-2AB1G2P11	1103573
						Cable with M12 male connector, 4- pin, 150 mm	ZLD18-2AB4B2	1095725
		ZLD18-2AB4B2P11	1103574					
		Cable with male connector	ZLD18-2AB4B2P37	1103575				
		Cable with male connector	ZLD18-2AB5B2	1095726				

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
Through-beam photoelec- tric sensor	12 ... 20 m	17 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	M8, 4-pin, snap, 150 mm		
					Cable open end, 4-wire, 2,000 mm	ZSE18-2AB1G3	1095845
					Cable with M12 male connector, 4- pin, 150 mm	ZSE18-2AB4B3	1095847
	20 ... 45 m	22 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable with male connector M8, 4-pin, snap, 150 mm	ZSE18-2AB5B3	1095849
					Cable open end, 4-wire, 2,000 mm	ZSE18-2AB1G8	1095846
					Cable with M12 male connector, 4- pin, 150 mm	ZSE18-2AB4B8	1095848
					Cable with male connector M8, 4-pin, snap, 150 mm	ZSE18-2AB5B8	1095850

<sup>1)</sup> Open Collector.

• **Mounting system type:** M18, nose / M18, base

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
Photoelec- tric proxim- ity sensor, Background suppression	0 ... 150 mm	50 mm	NPN, Dark switching	Not connected	Male connector M12, 4-pin	ZTB18-4EZ4A1D02	1100592	
			PNP, Light switching	Not connected	Male connector M12, 4-pin	ZTB18-4PZ4A1D02	1100591	
			Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTB18-4AB1G1D02	1095793	
					Male connector M12, 4-pin	ZTB18-4AB4A1D02	1095795	
					Male connec- tor M8, 4-pin	ZTB18-4AB3A1D02	1095870	
			100 mm	PNP, Light switching	Not connected	Cable with M12 male connector, 4- pin, 150 mm	ZTB18-4PZ4B2D04	1128292
		Cable with connector M8, 3-pin, 150 mm				ZTB18-4PZ2B2D04	1109590	
		Push-pull: PNP/NPN, Light switching		Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTB18-4AB1G1D04	1095794	
					Male connector M12, 4-pin	ZTB18-4AB4A1D04	1095796	
					Male connec- tor M8, 4-pin	ZTB18-4AB4A1S48	1102856	
						Male connec- tor M8, 4-pin	ZTB18-4AB3A1D04	1095871
		150 mm		PNP, Light switching	PNP, Health output	Male connector M12, 4-pin	ZTB18-4PR4A1D06	1110981

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.		
Photoelectric proximity sen- sor, Energetic	500 ... 1000 mm	700 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTE18-4AB1G2	1095836		
					Male connector M12, 4-pin	ZTE18-4AB4A2	1091823		
					Male connec- tor M8, 4-pin	ZTE18-4AB3A2	1095874		
		740 mm	PNP, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZTE18-4FZ1G8	1131320		
					Cable with M12 male connector, 4- pin, 150 mm	ZTE18-4FZ4B8	1131328		
					Cable with con- nector RJ11, 6- pin, 150 mm	ZTE18-4FZAB8	1131330		
					Male connec- tor M8, 4-pin	ZTE18-4FZ3A8	1131322		
		Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	5 m	NPN, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-4EZ1G8	1100627
							Male connector M12, 4-pin	ZLD18-4EZ4A8	1100624
							Terminal con- nection Wago 733-103, 3- pin, 500 mm	ZLD18-4EZCD8	1099278
NPN, Light switching	NPN, Alarm output			Cable open end, 4-wire, 2,000 mm	ZLD18-4NS1G8	1099297			
				NPN, Health output	Cable with connector RJ11, 6-pin, 1,500 mm	ZLD18-4NQAF8	1099282		

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.		
				Not connected	Male connector M12, 4-pin	ZLD18-4NZ4A8	1104867		
			PNP, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-4FZ1G8	1100622		
					Cable with M12 male connector, 4-pin, 150 mm	ZLD18-4FZ4B8	1131245		
				Not connected	Male connector M12, 4-pin	ZLD18-4FZ4A8	1099298		
					Male connector M8, 4-pin	ZLD18-4FZ3A8	1100623		
					PNP, Health output	Male connector M12, 4-pin	ZLD18-4FR4A8	1100629	
			PNP, Light switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-4PZ1G8	1099296		
					Male connector M12, 4-pin	ZLD18-4PZ4A8	1099295		
					Male connector M8, 4-pin	ZLD18-4PZ3A8	1089836		
			Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZLD18-4AB1G8	1095739		
					Male connector M12, 4-pin	ZLD18-4AB4A8	1095740		
					Male connector M8, 4-pin	ZLD18-4AB3A8	1095873		
			300 mm	NPN, Dark switching	Not connected	ZLD18-4EZ0C2S19	1100631		
						ZLD18-4EZ0C2S20	1100632		
		PNP, Dark switching			PNP, Alarm output	Terminal connection Wago 733-103, 4-pin, 800 mm	ZLD18-4FTD12	1112876	
		7.8 m	PNP, Light switching	Not connected	Cable with connector M8, 3-pin, 150 mm	ZLD18-4PZ2B2	1109591		
					Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZLD18-4AB1G2	1095727
							Male connector M12, 4-pin	ZLD18-4AB4A2	1095728
							Male connector M8, 4-pin	ZLD18-4AB3A2	1095872

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
Through-beam photoelec- tric sensor	12 ... 20 m	17 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZSE18-4AB1G3	1095851
					Male connector M12, 4-pin	ZSE18-4AB4A3	1095853
					Male connec- tor M8, 4-pin	ZSE18-4AB3A3	1095855
	20 ... 45 m	22 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZSE18-4AB1G8	1095852
					Male connector M12, 4-pin	ZSE18-4AB4A8	1095854
					Male connec- tor M8, 4-pin	ZSE18-4AB3A8	1095856

• **Mounting system type:** side (24.1 ... 25.4 mm)

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
Photoelec- tric proxim- ity sensor, Background suppression	0 ... 150 mm	100 mm	Push-pull: PNP/NPN, Light switching	Not connected	300 mm	ZTB18-7AZ0C1S62	1130649
		150 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTB18-7AB1G1D06	1106124
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	7.8 m	NPN, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-7EZ1G2	1104282
						ZLD18-7EZ1G2P38	1104283
			PNP, Light switching	PNP, Dark switching	Cable with M12 male connector, 4- pin, 150 mm	ZLD18-7PF4B2	1103896

<sup>1)</sup> Open Collector.



Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- tion type	Type	Part no.
Through-beam photoelec- tric sensor	12 ... 20 m	17 m	NPN, Dark switching <sup>1)</sup>	Not connected	Cable open end, 4-wire, 2,000 mm	ZSE18-7JZ1G3	1091128
						ZSE18-GJZ1G3	1091132
			NPN, Light switching <sup>1)</sup>	Not connected	Cable open end, 4-wire, 2,000 mm	ZSE18-7GZ1G3	1090302
						ZSE18-GGZ1G3	1091130
			PNP, Dark switching <sup>1)</sup>	Not connected	Cable open end, 4-wire, 2,000 mm	ZSE18-7KZ1G3	1091129
						ZSE18-GKZ1G3	1091133
	PNP, Light switching <sup>1)</sup>	Not connected	Cable open end, 4-wire, 2,000 mm	ZSE18-7HZ1G3	1091127		
				ZSE18-GHZ1G3	1091131		
	20 ... 45 m	22 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 1,000 mm	ZSE18-7AB1E8	1102788

<sup>1)</sup> Open Collector.

- **Mounting system type:** 24 mm, ball, without alignment aid

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
Photoelec- tric proxim- ity sensor, Background suppression	0 ... 150 mm	50 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTB18-8AB1G1D02	1095797
					Cable with M12 male connector, 4- pin, 150 mm	ZTB18-8AB4B1D02	1095799
					Cable with male connector M8, 4-pin, snap, 150 mm	ZTB18-8AB5B1D02	1095801
		100 mm			Cable open end, 4-wire, 2,000 mm	ZTB18-8AB1G1D04	1095798
					Cable with M12 male connector, 4- pin, 150 mm	ZTB18-8AB4B1D04	1095800
					Cable with male connector M8, 4-pin, snap, 150 mm	ZTB18-8AB5B1D04	1095802
Photoelectric proximity sen- sor, Energetic	500 ... 1000 mm	700 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTE18-8AB1G2	1095837
					Cable with M12 male connector, 4- pin, 150 mm	ZTE18-8AB4B2	1095838
					Cable with male connector M8, 4-pin, snap, 150 mm	ZTE18-8AB5B2	1095839

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.			
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	5 m	PNP, Dark switching	Not connected	Terminal con- nection Wago 733-103, 3- pin, 500 mm	ZLD18-8FZCD8	1099293			
						PNP, Light switching	PNP, Dark switching	Cable open end, 4-wire, 2,000 mm	ZLD18-8PF1G8	1119935
									Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching
			Cable with M12 male connector, 4- pin, 150 mm	ZLD18-8AB4B8	1095734					
				Cable with male connector M8, 4-pin, snap, 150 mm	ZLD18-8AB5B8	1095735				
			7.8 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZLD18-8AB1G2	1095701		
		Cable with M12 male connector, 4- pin, 150 mm					ZLD18-8AB4B2	1095722		
							Cable with con- nector RJ11, 6- pin, 150 mm	ZLD18-8ABAB2	1104800	
								Cable with male connector M8, 4-pin, snap, 150 mm	ZLD18-8AB5B2	1095723

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
Through-beam photoelec- tric sensor	12 ... 20 m	17 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZSE18-8AB1G3	1095857
					Cable with M12 male connector, 4- pin, 150 mm	ZSE18-8AB4B3	1095859
					Cable with male connector M8, 4-pin, snap, 150 mm	ZSE18-8AB5B3	1095861
	20 ... 45 m	22 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZSE18-8AB1G8	1095858
					Cable with M12 male connector, 4- pin, 150 mm	ZSE18-8AB4B8	1095860
					Cable with male connector M8, 4-pin, snap, 150 mm	ZSE18-8AB5B8	1095862

- **Mounting system type:** M18, head / dovetail mount with base

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Type	Part no.	
Photoelec- tric proxim- ity sensor, Background suppression	0 ... 150 mm	50 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTB18-9AB1G1D02	1095803	
					Cable with M12 male connector, 4- pin, 150 mm	ZTB18-9AB4B1D02	1095805	
					Cable with male connector M8, 4-pin, snap, 150 mm	ZTB18-9AB5B1D02	1095807	
		100 mm	NPN, Light switching	Not connected	Cable with M8 male con- nector, 4- pin, 500 mm	ZTB18-9NZ3D1D04	1121997	
						ZTB18-9GZ3D1D04	1123622	
			Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTB18-9AB1G1D04	1095804	
						Cable with M12 male connector, 4- pin, 150 mm	ZTB18-9AB4B1D04	1095806
						Cable with male connector M8, 4-pin, snap, 150 mm	ZTB18-9AB5B1D04	1095808

<sup>1)</sup> Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
Photoelectric proximity sen- sor, Energetic	500 ... 1000 mm	700 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZTE18-9AB1G2	1095840
					Cable with M12 male connector, 4- pin, 150 mm	ZTE18-9AB4B2	1095841
					Cable with male connector M8, 4-pin, snap, 150 mm	ZTE18-9AB5B2	1095842
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	5 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZLD18-9AB1G8	1095741
					Cable with M12 male connector, 4- pin, 150 mm	ZLD18-9AB4B8	1095742
					Cable with male connector M8, 4-pin, snap, 150 mm	ZLD18-9AB5B8	1095743
	7.8 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZLD18-9AB1G2	1095730	
				Cable with M12 male connector, 4- pin, 150 mm	ZLD18-9AB4B2	1095731	
				Cable with male connector M8, 4-pin, snap, 150 mm	ZLD18-9AB5B2	1095732	

<sup>1)</sup> Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- tion type	Type	Part no.
Through-beam photoelec- tric sensor	12 ... 20 m	17 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZSE18-9AB1G3	1095863
					Cable with M12 male connector, 4- pin, 150 mm	ZSE18-9AB4B3	1095865
					Cable with male connector M8, 4-pin, snap, 150 mm	ZSE18-9AB5B3	1095867
	20 ... 45 m	22 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZSE18-9AB1G8	1095864
					Cable with M12 male connector, 4- pin, 150 mm	ZSE18-9AB4B8	1095866
					Cable with male connector M8, 4-pin, snap, 150 mm	ZSE18-9AB5B8	1095868

<sup>1)</sup> Open Collector.

- **Sensor/ detection principle:** Photoelectric retro-reflective sensor, Dual lens
- **Sensing range max.:** 4 ... 7 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
5 m	NPN, Light switching <sup>1)</sup>	Not connected	Cable open end, 4-wire, 1,000 mm	ZLD18-2GZ1E8	On request

<sup>1)</sup> Open Collector.

- **Mounting system type:** 24 mm, ball / M18, base
- **Sensor/ detection principle:** Photoelectric retro-reflective sensor, Dual lens
- **Sensing range max.:** 4 ... 7 m
- **Sensing range:** 5 m

Switching output Q1	Switching output Q2	Connection type	Type	Part no.
NPN, Light switching	Not connected	Cable with male connector M8, 4-pin, snap, 2,000 mm	ZLD18-5NZ5G8	1099294
PNP, Light switching	Not connected	Male connector M8, 4-pin	ZLD18-5PZ3A8	1089834
	PNP, Alarm output	Male connector M8, 4-pin	ZLD18-5PT3A8	1089835

- **Mounting system type:** M18, ball / dovetail groove mounting
- **Switching output Q2:** Not connected

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Connection type	Type	Part no.
Photoelectric proximity sensor, Background suppression	0 ... 150 mm	50 mm	NPN, Light switching	Cable open end, 4-wire, 2,000 mm	ZTB18-6NZ1G2D02	1123275
			PNP, Light switching	Cable open end, 4-wire, 2,000 mm	ZTB18-6PZ1G2D02	1123223
		100 mm	NPN, Light switching	Cable open end, 4-wire, 2,000 mm	ZTB18-6NZ1G2D04	1123267
			PNP, Light switching	Cable open end, 4-wire, 2,000 mm	ZTB18-6PZ1G2D04	1123271

<sup>1)</sup> Open Collector.



Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Connection type	Type	Part no.
Photoelectric retro-reflective sensor, Dual lens	4 ... 7 m	7.8 m	NPN, Dark switching	Cable open end, 4-wire, 2,000 mm	ZLD18-6EZ1G2	1123273
			NPN, Light switching	Cable open end, 4-wire, 2,000 mm	ZLD18-6NZ1G2	1123251
			PNP, Dark switching	Cable open end, 4-wire, 2,000 mm	ZLD18-6FZ1G2	1123272
					ZLD18-6FZ1G2P49	1125207
			PNP, Light switching	Cable open end, 4-wire, 2,000 mm	ZLD18-6PZ1G2	1123222
				Cable with connector RJ11, 6-pin, 1,000 mm	ZLD18-FPZAE2	1125595
PNP, Light switching <sup>1)</sup>		ZLD18-FHZAE2	1126393			

<sup>1)</sup> Open Collector.

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