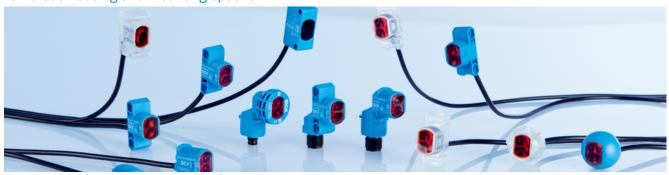


The cost-effective detection solution



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 Z18 Simple Sense 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.







tems thanks to M18 standard thread.

Easy to integrate into various types of sys- Stepless alignment of the optics thanks to Fits into a wide variety of system designs the ball-shaped housing.

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.

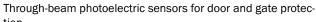
Reliable performance



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 Z18 Simple Sense 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, Z18 Simple Sense devices reduce downtime and impress with an excellent price/performance ratio.







Photoelectric retro-reflective sensors for applications on roller conveyors.



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









Technical data overview

Dimensions (W x H x D)	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 24 mm x 42.6 mm x 33.3 mm 24 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 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
Functional principle detail	Dual lens Energetic Background suppression (depending on type)
Light source	LED / PinPoint LED (depending on type)
Type of light	Infrared light / visible red light (depending on type)
Enclosure rating	IP67
Housing material	Plastic
Adjustment	None

Product description

The Z18 Simple Sense sensors are the ideal detection solution for standard applications at close range. With a wide variety of housing options, mounting options and principles of operation, the hybrid photoelectric sensors are suitable for all types of detection environments. The sensors are easy to install and, thanks to their compact size, can be easily integrated into existing plants and systems even where space is limited. Thanks to this combination of exceptional performance and maximum economy, the Z18 Simple Sense sensors are the ideal solution anywhere 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

- Simple and practical sensor solution for reliable presence detection
- Cost-effective detection: Optimum optical performance in a miniature size with excellent price/performance ratio
- · Minimal downtime: The sensor cannot be accidentally adjusted thanks to the simple design
- Flexible use: Thanks to the many housing and mounting options, Z18 Simple Sense sensors can be used in a wide range of application environments, even in the tightest spaces
- · High compatibility: Programmable switching output for easy integration into existing systems
- · 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/Z18_Simple_Sense

- Communication interface: -
- Mounting system type: M18, head/side (24.1 ... 25.4 mm)

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric proxim-	0 150 mm	50 mm	NPN, Light switching	Not connected	Male connector M8, 4-pin	ZTB18-BNZ3A1D02	1118609
ity sensor, Background suppression			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 M8, 4-pin, snap, 150 mm	ZTB18-2AB5B1D04	1095792
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

¹⁾ Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 7 m	5 m	-	PNP, Light switching ¹⁾	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	ZLD18-ANZAE8	1096976
					connector RJ11, 6-pin, 1,000 mm	ZLD18-ANZAE8P10	1096993
					Cable with	ZLD18-ANZAF8	1096978
					connector RJ11, 6-pin, 1,500 mm	ZLD18-ANZAF8P10	1096994
					Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-ANZAG8	1096979
						ZLD18-ANZAG8P10	1096995
					Cable with	ZLD18-ANZAH8	1096980
					connector RJ11, 6-pin, 2,500 mm	ZLD18-ANZAH8P10	1096996
					Cable with	ZLD18-ANZAK8	1096981
					connector RJ11, 6-pin, 3,000 mm	ZLD18-ANZAK8P10	1096997
					Cable with con-	ZLD18-ANZAD8	1096975
					nector RJ11, 6- pin, 500 mm	ZLD18-ANZAD8P10	1096992
			PNP, Dark	Not connected	Cable open	ZLD18-2FZ1G8	1099303
			switching		end, 4-wire, 2,000 mm	ZLD18-AFZ1G8	1096983
					Cable with	ZLD18-AFZ4B8	1096986
					M12 male connector, 4- pin, 150 mm	ZLD18-BFZ4B8	1100620
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 7 m	7 m 5 m	PNP, Dark switching	Not connected	Cable with M8 male con- nector, 4- pin, 150 mm	ZLD18-AFZ3B8	1100630
					Cable with M8 male con- nector, 4-pin, 2,000 mm	ZLD18-2FZ3G8	1097107
					Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-AFZAG8	1100621

¹⁾ Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
	5 m				Male connector M12, 4-pin	ZLD18-BFZ4A8	1100593
					Male connector M8, 4-pin	ZLD18-BFZ3A8	1100625
					Terminal con-	ZLD18-BFZCG8	1100594
				nection Wago 733-103, 3- pin, 2,000 mm	ZLD18-BFZCG8P32	1100595	
		PNP, Dark switching	Not connected	Terminal connection Wago 733-103, 3-pin, 800 mm	ZLD18-1FZC18	1089971	
				Terminal con-	ZLD18-BFZDG8	1100617	
					nection Wago 733-103, 4- pin, 2,000 mm	ZLD18-BFZDG8P32	1100618

¹⁾ Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.	
				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 ¹⁾		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	
8 PHOTOELEC	TRIC SENSORS SICK				Cable with connector	Product family overview ZLD18-APZAE8 Subject to o	2024-05-17 17:11:37 1096989 hange without notice	

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 7 m	5 m	PNP, Light switching	PNP, Dark switching	Cable with M8 male con- nector, 4- pin, 150 mm	ZLD18-2PF3B8	1131591
			PNP, Light switching ¹⁾	Not connected	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
				Push-pull: PNP/NPN, Dark switching	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
		7.8 m	NPN, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-2EZ1G2	1099177
			NPN, Light switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-2NZ1G2	1099159
			PNP, Dark switching	Not connected	Cable with M12 male connector, 4- pin, 150 mm	ZLD18-2FZ4B2	1124136

¹⁾ Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
					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 connection Wago 733-103, 3-pin, 1,000 mm	ZLD18-1FZCE2	1124386
					Terminal connection Wago 733-103, 3-pin, 2,000 mm	ZLD18-1FZCG2	1124387
					Terminal connection Wago 733-103, 3-pin, 3,000 mm	ZLD18-1FZCK2	1124388
					Terminal connection Wago 733-103, 4-pin, 1,000 mm	ZLD18-1FZDE2	1124384
					Terminal connection Wago 733-103, 4-pin, 2,000 mm	ZLD18-1FZDG2	1123163
					Terminal connection Wago 733-103, 4-pin, 3,000 mm	ZLD18-1FZDK2	1124385
					Terminal con- nection Wago 733-103, 4- pin, 800 mm	ZLD18-2FZD12	1133296
			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 M8, 3-pin	ZLD18-2PZ2A2	1099400
					Cable with connector RJ11, 6-pin, 1,000 mm	ZLD18-APZAE2	1123668
	10 PHOTOELECTRIC SENSORS SICK				Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-APZAG2	1137361
			Push-pull:	Push-pull:	Cable open	ZLD18-2AB1G2	1095724
		PNP/NPN, Light switching	PNP/NPN, Dark switching	end, 4-wire, 2,000 mm	ZLD18-2AB1G2P11	1103573	
					Cable with M12 male connector, 4- pin, 150 mm	ZLD18-2AB4B2	1095725
10 PHOTOELEC		SICK				ZLD18-2AB4B2P11 ZLD18-2AB4B2P37	1103574 2024,05,17,247;21:37
					Cable with	Subject to c ZLD18-2AB5B2	hange without notice 1095726

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
					M8, 4-pin, snap, 150 mm		
Through-beam photoelectric 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	ZSE18-2AB1G3	1095845
				Cable with M12 male connector, 4- pin, 150 mm	ZSE18-2AB4B3	1095847	
					Cable with male connector M8, 4-pin, snap, 150 mm	ZSE18-2AB5B3	1095849
	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	ZSE18-2AB1G8	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

¹⁾ Open Collector.

- Communication interface: -
- Mounting system type: M18, head/M18, base

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric proxim-	0 150 mm	50 mm	NPN, Dark switching	Not connected	Male connector M12, 4-pin	ZTB18-4EZ4A1D02	1100592
ity sensor, Background suppression			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 connector 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	ZTB18-4AB4A1D04	1095796
					M12, 4-pin	ZTB18-4AB4A1S48	1102856
					Male connector M8, 4-pin	ZTB18-4AB3A1D04	1095871
		150 mm	PNP, Light switching	Not connected	Cable with connector M8, 3-pin, 150 mm	ZTB18-4PZ2B2D06	1137500
				PNP, Health output	Male connector M12, 4-pin	ZTB18-4PR4A1D06	1110981
Photoelectric proximity sensor, 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 connector 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 connector M8, 4-pin	ZTE18-4FZ3A8	1131322

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric retro-re- flective sen-	tric retro-re-	- /	NPN, Dark switching	Not connected	Cable open end, 4-wire, 2,000 mm	ZLD18-4EZ1G8	1100627
sor, Dual lens					Male connector M12, 4-pin	ZLD18-4EZ4A8	1100624
					Terminal connection 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	

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
				NPN, Health output	Cable with connector RJ11, 6-pin, 1,500 mm	ZLD18-4NQAF8	1099282
				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
					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	, 5	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
		7.8 m	NPN, Dark	Not connected	300 mm	ZLD18-4EZ0C2S19	1100631
			switching			ZLD18-4EZ0C2S20	1100632
			PNP, Dark switching	PNP, Alarm output	Terminal con- nection Wago 733-103, 4- pin, 800 mm	ZLD18-4FTD12	1112876
			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	Connec- tion type	Туре	Part no.
Through-beam 12 20 m 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 connector M8, 4-pin	ZSE18-4AB3A3	1095855	
	20 45 m	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 connector M8, 4-pin	ZSE18-4AB3A8	1095856	

- Communication interface: -
- Mounting system type: 24 mm, ball/M18, base

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 7 m	5 m	NPN, Light switching	NPN, Health output	Cable with connector RJ11, 6-pin, 1,500 mm	ZLD18-5NQAF8	1134317
				Not connected	Cable with male connec- tor 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
Through-beam photoelectric sensor	20 45 m	22 m	PNP, Light switching	Not connected	Male connector M8, 4-pin	ZSE18-5PZ3A8	1133214

- Communication interface: -
- Mounting system type: Side (24.1 ... 25.4 mm)

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric proxim- ity sensor, Background suppression	0 150 mm	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-	4 7 m 5 m	5 m	m PNP, Light switching ¹⁾	Not connected	Cable open	ZLD18-7HZ1G8	1098622
tric retro-re- flective sen-					end, 4-wire, 2,000 mm	ZLD18-GHZ1G8	1098352
sor, Dual lens		7.8 m	NPN, Dark	Not connected	Cable open	ZLD18-7EZ1G2	1104282
			switching		end, 4-wire, 2,000 mm	ZLD18-7EZ1G2P38	1104283
		PNP, Light switching	PNP, Dark switching	Cable with M12 male connector, 4- pin, 150 mm	ZLD18-7PF4B2	1103896	

¹⁾ Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Through-beam	12 20 m	17 m	NPN, Dark	Not connected	Cable open	ZSE18-7JZ1G3	1091128
photoelec- tric sensor	•		switching ¹⁾		end, 4-wire, 2,000 mm	ZSE18-GJZ1G3	1091132
			NPN, Light	Not connected	Cable open	ZSE18-7GZ1G3	1090302
		20 45 m 22 m	switching ¹⁾		end, 4-wire, 2,000 mm	ZSE18-GGZ1G3	1091130
			PNP, Dark	Not connected	Cable open	ZSE18-7KZ1G3	1091129
			switching ¹⁾		end, 4-wire, 2,000 mm	ZSE18-GKZ1G3	1091133
			PNP, Light	Not connected	Cable open	ZSE18-7HZ1G3	1091127
			switching ¹⁾		end, 4-wire, 2,000 mm	ZSE18-GHZ1G3	1091131
	20 45 m		Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 4-wire, 1,000 mm	ZSE18-7AB1E8	1102788
				Cable with M8 male con- nector, 4- pin, 150 mm	ZSE18-7AB3B8	1131451	

¹⁾ Open Collector.

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

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric proxim- ity sensor,	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
Background suppression					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	100 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	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

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	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	ZTE18-8AB1G2	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
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 7 m	5 m	PNP, Dark switching	Not connected	Terminal connection 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 open end, 4-wire, 2,000 mm	ZLD18-8AB1G8	1095733
					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	Connec- tion type	Туре	Part no.
Through-beam photoelectric 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	

- Communication interface: -
- Mounting system type: M18, head/dovetail mounting with base

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric proxim- ity sensor,	0 150 mm	n 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
Background suppression					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-	ZTB18-9NZ3D1D04	1121997
			NPN, Light switching ¹⁾	Not connected	nector, 4- pin, 500 mm	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
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

 $^{^{1)}}$ Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric retro-re- flective sen-	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
sor, Dual lens					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
Through-beam photoelectric 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

¹⁾ 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	Туре	Part no.
5 m	NPN, Light switching ¹⁾	Not connected	Cable open end, 4-wire, 1,000 mm	ZLD18-2GZ1E8	On request

¹⁾ Open Collector.

• Mounting system type: M18, head/side (24.1 ... 25.4 mm)

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric proxim- ity sensor, Background suppression	0 150 mm	100 mm	PNP, Light switching	Not connected	Cable with male connec- tor RJ9, 4- pin, 300 mm	ZTB18-2PZBC2D04	1141239
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 7 m	5 m	PNP, Dark switching	Not connected	Terminal connection Wago 733-103, 3-pin, 800 mm	ZLD18-2FZC18	1096447
				PNP, Health output	Cable with M8 male con- nector, 4-pin, 2,000 mm	ZLD18-2FR3G8	1141745
					Terminal connection Wago 733-103, 4-pin, 2,000 mm	ZLD18-2FRDG8	1142374
		7.8 m	PNP, Dark switching	Not connected	Cable with M8 male con- nector, 4- pin, 150 mm	ZLD18-2FZ3B2	1138610
			PNP, Light switching		Cable with M12 male connector, 4- pin, 150 mm	ZLD18-2PZ4B2	1140593
					Cable with M8 male con- nector, 4- pin, 0 mm	ZLD18-BPZ302S93	1142021
					Cable with con- nector RJ11, 6-pin, 0 mm	ZLD18-BPZA02S93	1142022
					Cable with male connec- tor RJ9, 4- pin, 300 mm	ZLD18-2PZBC2	1141231
			PNP, Light switching ¹⁾	Not connected	Cable with M8 male con- nector, 4-pin, 1,000 mm	ZLD18-BHZ3E2	1142646
					Cable with M8 male con-	ZLD18-BHZ3G2	1142647

¹⁾ Open Collector.

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
					nector, 4-pin, 2,000 mm		

¹⁾ Open Collector.

• Mounting system type: M18, head/M18, base

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Туре	Part no.
Photoelec- tric proxim-	0 150 mm	50 mm	PNP, Light switching	Not connected	Male connector M12, 4-pin	ZTB18-4PZ4A2D02	1139619
ity sensor, Background suppression		100 mm	NPN, Dark switching ¹⁾	Not connected	Male connector M8, 4-pin	ZTB18-4JZ3A2D04	1140196
			NPN, Light switching ¹⁾	Not connected	Male connector M8, 4-pin	ZTB18-4GZ3A2D04	1140200
			PNP, Light switching	Not connected	Male connector M12, 4-pin	ZTB18-4PZ4A2D04	1139919
Photoelectric proximity sensor, Energetic	500 1000 mm	700 mm	Push-pull: PNP/NPN, Light switching	Not connected	Male connector M12, 4-pin	ZTE18-DAZ4A2	1142373
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 7 m	5 m	PNP, Light switching	PNP, Dark switching	Cable with M12 male connector, 4- pin, 300 mm	ZLD18-4PF4C8	1140009
					Cable with M8 male con- nector, 4- pin, 150 mm	ZLD18-4PF3B8	1137774

¹⁾ Open Collector.

- Communication interface: -
- Mounting system type: M18, head/dovetail mounting
 Switching output Q2: Not connected

Sensor/ detec- tion principle	Sensing range max.	Sensing range	Switching output Q1	Connection type	Туре	Part no.
Photoelectric proximity sen- sor, 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

¹⁾ Open Collector.

Sensor/ detec- tion principle	Sensing range max.	Sensing range	Switching output Q1	Connection type	Туре	Part no.
Photoelectric retro-reflective sensor, Dual Iens	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
			NPN, Light switching ¹⁾	Cable open end, 4-wire, 2,000 mm	ZLD18-6GZ1G2	1136749
			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 con- nector RJ11, 6- pin, 1,000 mm	ZLD18-FPZAE2	1125595
			PNP, Light switching ¹⁾		ZLD18-FHZAE2	1126393

¹⁾ Open Collector.

• Mounting system type: Side (24.1 ... 25.4 mm)

• Sensor/ detection principle: Photoelectric retro-reflective sensor, Dual lens

• Sensing range max.: 4 ... 7 m

Sensing ra	nge Switching	output Q1 Switching or	utput Q2 Connec	tion type	Туре	Part no.
7.8 m	PNP, Light	switching PNP, Dark s	6	M8 male con- pin, 150 mm	ZLD18-7PF3B2	1130379

• Mounting system type: M18, head/dovetail mounting

• Sensor/ detection principle: Photoelectric retro-reflective sensor, Dual lens

• Sensing range max.: 4 ... 7 m

• Sensing range: 7.8 m

• Switching output Q1: PNP, Light switching (Open Collector.)

• Switching output Q2: Not connected

Connection type	Туре	Part no.
Cable with connector RJ11, 6-pin, 2,000 mm	ZLD18-FHZAG2S75	1131108
Cable with connector RJ11, 6-pin, 3,000 mm	ZLD18-FHZAK2S75	1131109
Cable with connector RJ11, 6-pin, 500 mm	ZLD18-FHZAD2S75	1131106

• Mounting system type: M18, head/dovetail mounting with base

• Sensor/ detection principle: Photoelectric proximity sensor, Background suppression

• Sensing range max.: 0 ... 150 mm

Sensing range	Switching output Q1	Switching output Q2	Connection type	Туре	Part no.
100 mm	NPN, Dark switching ¹⁾	Not connected	Cable with M8 male connector, 4-pin, 500 mm	ZTB18-9JZ3D1D04	1139470

¹⁾ Open Collector.

SICK AT A GLANCE

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

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

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

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com

