



SureSense

The sure way to detect any object

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	16.2 mm x 45.5 mm x 34.4 mm 16.2 mm x 45.5 mm x 31.8 mm 16.2 mm x 44.9 mm x 31.8 mm 16.2 mm x 48.5 mm x 31.8 mm 16.2 mm x 50.1 mm x 34.4 mm 16.2 mm x 50.1 mm x 31.4 mm
Sensing range max.	0.03 m ... 6.5 m ¹⁾ 0.1 m ... 3 m ¹⁾ 0.1 m ... 12 m ¹⁾ 0 m ... 20 m 0 m ... 25 m 0 m ... 60 m 5 mm ... 300 mm ²⁾ 5 mm ... 300 mm 5 mm ... 200 mm ²⁾ 30 mm ... 300 mm ²⁾ 5 mm ... 1,000 mm ²⁾ 5 mm ... 600 mm ²⁾ 40 mm ... 300 mm ²⁾
Light source	PinPoint LED Laser LED (depending on type)
Type of light	Visible red light / Infrared light (depending on type)
Enclosure rating	IP67 IP69K
Housing material	Plastic VISTAL®

¹⁾ Reflector PL80A.

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

Product description

The SureSense family of photoelectric sensors provides reliable detection of virtually any object in any environment. This versatility allows detection of the very basic to most difficult objects including black, shiny, transparent, varying color and more. SureSense does this by providing best-in-class performance along with an extremely broad offering of sensing options, output types and advanced features. Plus, an intuitive signal strength light bar makes installation and troubleshooting easier than ever. All this cutting edge technology is built into a VISTAL™ housing, which is 9 times stronger than ABS housings.

At a glance

- The most flexible and complete portfolio of hybrid sensors
- New and intuitive light strip
- Best background suppression in the sector
- Detection of transparent objects with AutoAdapt technology
- VISTAL housing

Your benefits

- Solve the vast majority of a customer's applications with a single sensor family
- Standardize mounting designs, accessories, set-up procedures and suppliers
- Fast and simple alignment during installation
- Continuous indication of signal strength
- Reliably sense objects of varying colors and materials
- Transparent object detection in tough environments with minimal need for additional cleaning
- Reduce replacement costs and down time due to damages during installation or use
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Fields of application

- Machines with a wide variety of detection tasks
- Detection of transparent objects
- Detection of objects with a wide variety of colors
- Applications with AC power supply
- Detection of small objects and through small openings
- OEM machine construction (e.g., packaging industry, consumer goods, wood processing, etc.)

Ordering information

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

- **Device version:** Standard
- **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	150 ... 500 mm	300 mm	-	-	Male connector M12, 4-pin	HTB18- Z4A2BAD06S07	1092937	
			MOSFET, Dark switching	-	Cable open end, 2,000 mm	HTB18-M1G2AAD02	1077796	
						HTB18-M1G2AB	1071048	
						Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HTB18-M5B2AAD04	1087361
							HTB18-M5B2AB	1079042
							HTB18-M5B2AH	1078933
						Cable with con- nector, Micro (1/2"-20), 4- pin, 2,000 mm	HTB18-M5G2AB	1079043
			MOSFET, Light switching	-	Cable open end, 2,000 mm	HTB18-L1G2AB	1078980	
						HTB18-L1G2AF	1078475	
						HTB18-L1G2AG	1078476	

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
					Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HTB18-L5B2AAD04	1080319	
						HTB18-L5B2AB	1078825	
						HTB18-L5B2AH	1091041	
					Cable with con- nector, Micro (1/2"-20), 4- pin, 2,000 mm	HTB18-L5G2AB	1080675	
						HTB18-L5C2AH	1090985	
			NPN, Light switching	NPN, Alarm output	Male connector M12, 4-pin	HTB18L-H4A5BB	1085701	
					NPN, Dark switching	Cable open end, 1,000 mm	HTB18L-N1E5BB	1091223
						Cable open end, 2,000 mm	HTB18-N1G2AB	1071005
						HTB18-N1G2BB	1073430	
					Cable with M12 male connector, 4- pin, 300 mm	HTB18-N1G5BB	1074788	
						HTB18-N4C2BF	1086145	
					Cable with M8 male con- nector, 4- pin, 150 mm	HTB18-N3B2AB	1078545	
						HTB18-N3B2BH	1098355	
					Male connector M12, 4-pin	HTB18-N4A2AAD02	1071022	
						HTB18-N4A2AAD04	1071023	
						HTB18-N4A2AB	1071003	
						HTB18-N4A2BAD02	1074759	
						HTB18-N4A2BAD04	1074760	
						HTB18-N4A2BB	1073429	
						HTB18-N4A2BG	1129146	
Photoelec- tric proxim- ity sensor, Background suppression	150 ... 500 mm	300 mm	NPN, Light switching	NPN, Dark switching	Male connector M12, 4-pin	HTB18-N4A2BH	1079885	
						HTB18L-N4A5BB	1074782	
						HTB18L-N4A5BF	1085418	
					Male connec- tor M8, 4-pin	HTB18-N3A2BAD02	1090598	
						HTB18-N3A2BB	1078511	
						HTB18-N3A2BG	1088510	
						HTB18L-N3A5AB	1071033	
					NPN, Health output	Male connector M12, 4-pin	HTB18L-W4A5BB	1085700
					Not connected	Cable with connector M8, 3-pin, 150 mm	HTB18-N2B2BB	1081111

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
			PNP, Dark switching	NPN, Dark switching	Cable with connector M8, 3-pin, 300 mm	HTB18L-N2C5BDD02	1078769
						HTB18L-N2C5BG	1078775
					Cable open end, 2,000 mm	HTB18-A1G2BB	1078525
					Cable with M12 male connector, 4- pin, 1,000 mm	HTB18L-A4E5BB	1096227
					Cable with M12 male connector, 4- pin, 150 mm	HTB18-A4B2BED02	1083174
						HTB18-A4B2BH	1086791
					Male connector M12, 4-pin	HTB18-A4A2AB	1071011
						HTB18-A4A2BB	1073426
						HTB18-A4A2BH	1081340
						HTB18L-A4A5BF	1088547
					Male connec- tor M8, 4-pin	HTB18L-A4A5BH	1083157
						HTB18-A3A2BB	1078528
			HTB18-A3A2BF	1082535			
				HTB18-A3A2BH	1082748		
			Not connected	Cable with connector M8, 3-pin, 150 mm	HTB18-A2B2BB	1094157	
			PNP, Alarm output	Male connector M12, 4-pin	HTB18-J4A2AB	1101459	
			PNP, Light switching	NPN, Light switching	Cable open end, 2,000 mm	HTB18-B1G2AB	1071013
						HTB18-B1G2BB	1078526
						HTB18-B1G2BF	1086307
						HTB18-B1G2BH	1080300
					Cable with M12 male connector, 4- pin, 150 mm	HTB18-B4B2BED02	1087201
						HTB18-B4B2BED04	1079118
						HTB18-B4B2BH	1077093
						HTB18L-B4B5BH	1077096
			Cable with M12 male connector, 4- pin, 300 mm	HTB18-B4C2BB	1082348		
			Male connector M12, 4-pin	HTB18-B4A2AAD06	1080372		
				HTB18-B4A2AB	1070989		
HTB18-B4A2AED06	1123667						
HTB18-B4A2AG	1088216						
HTB18-B4A2BAD02	1078535						
HTB18-B4A2BAD04	1078536						
Photoelec- tric proxim- ity sensor, Background suppression	150 ... 500 mm	300 mm	PNP, Light switching	NPN, Light switching			

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
						HTB18-B4A2BAD06	1078537	
						HTB18-B4A2BB	1073427	
						HTB18-B4A2BCD02	1085437	
						HTB18-B4A2BED02	1086679	
						HTB18-B4A2BG	1082085	
						HTB18-B4A2BH	1080340	
						HTB18L-B4A5AAD06	1086851	
						HTB18L-B4A5AG	1078770	
						HTB18L-B4A5BAD02	1085448	
						HTB18L-B4A5BAD04	1079103	
						HTB18L-B4A5BB	1081974	
						HTB18L-B4A5BG	1078438	
						HTB18L-B4A5BH	1080339	
						Male connec- tor M8, 4-pin	HTB18-B3A2AB	1071019
						HTB18-B3A2BB	1073428	
					Not connected	Cable with connector M8, 3-pin, 150 mm	HTB18-P2B2BH	1087781
							HTB18L-P2B5BB	1104069
					PNP, Dark switching	Cable open end, 1,000 mm	HTB18-P1E2AAD06	1087471
							HTB18-P1G2AB	1071001
					PNP, Dark switching	Cable open end, 2,000 mm	HTB18-P1G2AF	1071461
							HTB18-P1G2AG	1078474
					Photoelec- tric proxim- ity sensor, Background suppression	150 ... 500 mm	300 mm	PNP, Light switching
HTB18-P1G2BB	1073432							
HTB18-P1G2BF	1071877							
HTB18L-P1G5BB	1074785							
Cable with M12 male connector, 4- pin, 150 mm	HTB18-P4B2AAD04	1094597						
	HTB18-P4B2AB	1081842						
	HTB18-P4B2BAD02	1078538						
	HTB18-P4B2BAD04	1079040						
	HTB18-P4B2BB	1078539						

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.
						HTB18-P4B2BED02	1077092
						HTB18-P4B2BED04	1091174
						HTB18L-P4B5BB	1079041
					Cable with M12 male connector, 4- pin, 300 mm	HTB18-P4C2AB	1084161
						HTB18-P4C2BB	1084160
						HTB18L-P4C5BB	1080600
					Cable with M8 male con- nector, 4-pin, 1,000 mm	HTB18-P3E2BB	1100871
					Cable with M8 male con- nector, 4- pin, 150 mm	HTB18-P3B2AB	1080272
						HTB18-P3B2BAD02	1085151
						HTB18-P3B2BAD04	1101372
						HTB18-P3B2BB	1078540
						HTB18-P3B2BED02	1080549
						HTB18-P3B2BED04	1080550
						HTB18-P3B2BED06	1080551
						HTB18-P3B2BH	1080571
						HTB18L-P3B5BH	1084840
					Cable with M8 male con- nector, 4- pin, 500 mm	HTB18-P3D2BAD02	1082640
Male connector M12, 4-pin	HTB18-P4A2AAD02	1071020					
	HTB18-P4A2AAD04	1071021					
PNP, Dark switching	Male connector M12, 4-pin	HTB18-P4A2AAD06	1076301				
Photoelec- tric proxim- ity sensor, Background suppression	150 ... 500 mm	300 mm	PNP, Light switching	PNP, Dark switching	Male connector M12, 4-pin	HTB18-P4A2AB	1070986
						HTB18-P4A2ABS02	1082312
						HTB18-P4A2AF	1078840
						HTB18-P4A2AG	1081248
						HTB18-P4A2AH	1073295
						HTB18-P4A2BAD02	1074757
						HTB18-P4A2BAD04	1074758
						HTB18-P4A2BAD06	1076841
						HTB18-P4A2BB	1073431
HTB18-P4A2BED02	1078821						

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
						HTB18-P4A2BED04	1078822	
						HTB18-P4A2BF	1100237	
						HTB18-P4A2BG	1081734	
						HTB18-P4A2BH	1078819	
						HTB18L-P4A5AAD08	1082387	
						HTB18L-P4A5AB	1071031	
						HTB18L-P4A5AF	1085523	
						HTB18L-P4A5BB	1073611	
						HTB18L-P4A5BF	1085994	
						HTB18L-P4A5BG	1076162	
						HTB18L-P4A5BH	1078820	
						Male connec- tor M8, 4-pin	HTB18-P3A2AB	1071004
						HTB18-P3A2BAD06	1092209	
						HTB18-P3A2BB	1073433	
						HTB18-P3A2BG	1080813	
						HTB18-P3A2BH	1083165	
						HTB18L-P3A5AB	1082239	
						HTB18L-P3A5BB	1080284	
						HTB18L-P3A5BG	1090235	
				PNP, Health output	Male connector M12, 4-pin	HTB18L-V4A5BB	1095545	

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	600 mm	MOSFET, Dark switching	-	Cable open end, 2,000 mm	HTE18-M1G2AB	1072168		
		600 mm	MOSFET, Light switching	-	Cable open end, 2,000 mm	HTE18-L1G2AH	1073697		
					Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HTE18-L5B2AF	1081783		
			NPN, Light switching	NPN, Alarm output	Male connec- tor M8, 4-pin	HTE18-H3A2BF	1073692		
		PNP, Dark switching	NPN, Dark switching	Cable with M12 male connector, 4- pin, 150 mm	HTE18-A4B2BB	1081683			
					Male connector M12, 4-pin	HTE18-A4A2BH	1091742		
		PNP, Light switching	NPN, Light switching	Cable with M12 male connector, 4- pin, 150 mm	HTE18-B4B2BH	1083485			
					Male connector M12, 4-pin	HTE18-B4A2AH	1122446		
					HTE18-B4A2BB	1079631			
					HTE18-B4A2BF	1079581			
					HTE18-B4A2BG	1078718			
					HTE18-B4A2BH	1081212			
					Not connected	Cable with connector M8, 3-pin, 150 mm	HTE18-P2B2BB	1092900	
					PNP, Alarm output	Male connector M12, 4-pin	HTE18-G4A2AA	1071014	
		Photoelectric proximity sen- sor, Energetic	500 ... 1000 mm	600 mm	PNP, Light switching	PNP, Alarm output	Male connector M12, 4-pin	HTE18-G4A2AB	1073477
								HTE18-G4A2BA	1071759
PNP, Dark switching	Cable open end, 2,000 mm				HTE18-P1G2BB	1074756			
					Cable with M12 male connector, 4- pin, 150 mm	HTE18-P4B2BB	1080352		
						HTE18-P4B2BH	1081777		
					Cable with M12 male connector, 4- pin, 300 mm	HTE18-P4C2BB	1080353		
					Cable with M8 male con- nector, 4- pin, 150 mm	HTE18-P3B2BH	1082313		
					Male connector M12, 4-pin	HTE18-P4A2AF	1081782		
						HTE18-P4A2BB	1074755		
						HTE18-P4A2BH	1082774		

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.		
					Male connec- tor M8, 4-pin	HTE18-P3A2AE	1083018		
						HTE18-P3A2AH	1083858		
						HTE18-P3A2BB	1077647		
						HTE18-P3A2BH	1084798		
				PNP, Health output	Male connec- tor M8, 4-pin	HTE18-V3A2AG	1073690		
				Push-pull: PNP/NPN, Light switching	Male connector M12, 4-pin	HTE18-F4A2BF	1086340		
						HTE18-F4A2BH	1086341		
				1,000 mm	MOSFET, Dark switching	-	Cable open end, 2,000 mm	HTE18-M1G1AB	1078477
						-	Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HTE18-M5B1AB	1077630
					MOSFET, Light switching	-		HTE18-L5B1AB	1077631
						HTE18-L5B1AH	1089850		
		NPN, Light switching	NPN, Dark switching		Cable open end, 2,000 mm		HTE18-N1G1BB	1078523	
						Male connector M12, 4-pin	HTE18-N4A1AB	1071012	
				HTE18-N4A1BB			1071758		
			Not connected	Cable with connector M8, 3-pin, 150 mm	HTE18-N4A1BH	1085030			
					Male connec- tor M8, 4-pin	HTE18-N3A1BB	1078529		
					HTE18-N2B1BB	1081112			
		PNP, Dark switching	NPN, Dark switching	Cable open end, 2,000 mm		HTE18-N2B1BH	1081110		
						HTE18-A1G1BB	1071768		
					HTE18-A1G1BG	1071463			
Photoelectric proximity sen- sor, Energetic	500 ... 1000 mm	1,000 mm	PNP, Dark switching	NPN, Dark switching	Male connector M12, 4-pin	HTE18-A4A1AB	1071008		
						HTE18-A4A1BB	1071756		
						HTE18-A4A1BH	1081341		
					Male connec- tor M8, 4-pin	HTE18-A3A1AH	1088070		
						HTE18-A3A1BB	1078530		
			PNP, Light switching	NPN, Light switching	Cable open end, 2,000 mm		HTE18-B1G1BB	1071770	
							HTE18-B1G1BH	1081802	
					Cable with M12 male connector, 4- pin, 150 mm		HTE18-B4B1BH	1083486	
						Cable with M12 male connector, 4- pin, 2,000 mm		HTE18-B4G1AA	1080807

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
				PNP, Dark switching	Male connector M12, 4-pin	HTE18-B4A1AB	1071002	
						HTE18-B4A1BB	1071753	
						HTE18-B4A1BH	1079906	
					Male connec- tor M8, 4-pin	HTE18-B3A1BB	1078531	
						Cable open end, 2,000 mm	HTE18-P1G1AB	1070995
							HTE18-P1G1BB	1071749
					Cable open end, 5,000 mm	HTE18-P1P1AB	1088460	
					Cable with M12 male connector, 4- pin, 150 mm	HTE18-P4B1AB	1123666	
						HTE18-P4B1BB	1082652	
						HTE18-P4B1BH	1082751	
					Cable with M8 male con- nector, 4-pin, 1,000 mm	HTE18-P3E1BB	1083285	
					Cable with M8 male con- nector, 4- pin, 150 mm	HTE18-P3B1BB	1094823	
				Cable with M8 male con- nector, 4- pin, 300 mm	HTE18-P3C1BB	1083284		
				Male connector M12, 4-pin	HTE18-P4A1AB	1070992		
					HTE18-P4A1ABS03	1081581		
					HTE18-P4A1BB	1071746		
					HTE18-P4A1BH	1094885		
				Male connec- tor M8, 4-pin	HTE18-P3A1BB	1071764		
				PNP, Health output	Male connector M12, 4-pin	HTE18-V4A1BB	1078750	
				Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 2,000 mm	HTE18-F1G1BB	1084841
							HTE18-F1G1BH	1081574

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
Photoelectric proximity sen- sor, Foreground suppression	150 ... 500 mm	300 mm	NPN, Light switching	NPN, Dark switching	Cable open end, 2,000 mm	HTF18-N1G2BB	1075809	
						HTF18L-N1G5BB	1075813	
					Male connector M12, 4-pin	HTF18-N4A2BB	1075807	
						HTF18L-N4A5BB	1075811	
				Not connected	Cable with connector M8, 3-pin, 150 mm	HTF18-N2B2BB	1091935	
						HTF18L-N2B5AA	1079431	
				PNP, Light switching	NPN, Light switching	Male connector M12, 4-pin	HTF18-B4A2BH	1080327
						PNP, Dark switching	Cable open end, 2,000 mm	HTF18-P1G2AB
			HTF18-P1G2BB					1075808
			HTF18L-P1G5BB					1075812
			Cable with M12 male connector, 4- pin, 150 mm		HTF18-P4B2AH	1101929		
					Cable with M8 male con- nector, 4- pin, 150 mm	HTF18-P3B2BB	1097085	
						HTF18-P3G2BB	1074590	
					Male connector M12, 4-pin	HTF18-P4A2AB	1071044	
			HTF18-P4A2BB	1075806				
			HTF18L-P4A5BB	1075810				
Male connec- tor M8, 4-pin	HTF18-P3A2BB	1078491						

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	2 ... 4 m	3 m	MOSFET, Dark switching	-	Cable open end, 2,000 mm	HL18G-M1G3AL	1080322		
	2 ... 4 m	3 m	MOSFET, Dark switching	-	Cable open end, 2,000 mm	HL18T-M1G3AB	1077659		
					Cable with con- nector, Micro (1/2"-20), 4- pin, 2,000 mm	HL18G-M5G3AM	1081955		
						HL18G-M5G3AP	1084568		
					NPN, Light switching	NPN, Dark switching	Cable open end, 2,000 mm	HL18G-N1G3BL	1074764
								HL18T-N1G3BB	1074768
							Cable with M12 male connector, 4- pin, 150 mm	HL18T-N4B3BB	1081806
			HL18T-N4B3BH	1083397					
			Male connector M12, 4-pin	HL18G-N4A3BL				1074765	
				HL18G-N4A3BM			1085125		
			HL18T-N4A3BB	1074771					
			HL18T-N4A3BF	1085855					
			HL18T-N4A3BG	1086995					
			Photoelec- tric retro-re-	2 ... 4 m	3 m	NPN, Light switching	NPN, Dark switching	Male connector M12, 4-pin	HL18T-N4A3BH

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
flective sensor, Dual lens	2 ... 4 m	3 m	PNP, Dark switching	NPN, Dark switching	Male connector M8, 4-pin	HL18G-N3A3BL	1085238	
						HL18G-N3A3BM	1088878	
						HL18G-N3A3BN	1088879	
						HL18G-N3A3BP	1092210	
					HL18T-N3A3AB	1082591		
					Cable open end, 2,000 mm	HL18G-A1G3AL	1082073	
						HL18G-A1G3BL	1082038	
						Cable open end, 3,000 mm	HL18T-A1K3BB	1098305
							HL18T-A4B3AB	1123349
					Cable with M12 male connector, 4-pin, 150 mm	HL18G-A4A3BM	1088546	
						HL18G-A4A3BP	1090238	
						HL18T-A4A3BF	1092798	
			HL18T-A4A3BH	1087971				
			Male connector M12, 4-pin	HL18G-A2B3AL	1084976			
				HL18G-A2B3BL	1084977			
				HL18G-A2B3BP	1084991			
			Not connected	Cable with connector M8, 3-pin, 150 mm	HL18G-B4B3BP	1077133		
					HL18T-B4B3AB	1123350		
					HL18G-B4A3AL	1080257		
			PNP, Light switching	NPN, Light switching	Cable with M12 male connector, 4-pin, 150 mm	HL18T-B4A3BH	1080225	
						Male connector M12, 4-pin	HL18T-B2E3AB	1086095
							HL18G-P2B3BL	1092901
			Not connected	Cable with connector M8, 3-pin, 1,000 mm	HL18T-P2G3BB	1079923		
					Cable with connector M8, 3-pin, 150 mm	HL18G-P1G3AL	1071038	
						HL18G-P1G3BL	1071040	
			PNP, Dark switching	Cable open end, 2,000 mm	HL18T-P1G3AB	1071042		
					HL18T-P1G3BB	1074767		
Cable with M12 male connector, 4-pin, 150 mm	HL18G-P4B3BL	1081918						
	HL18G-P4B3BN	1093458						
PNP, Light switching	NPN, Light switching	Male connector M12, 4-pin	HL18T-P4B3BB	1083488				
			HL18T-P3B3BB	1095544				
			Male connector M12, 4-pin	HL18G-P4A3AL	1071036			
Photoelectric retro-reflective sensor, Dual lens	2 ... 4 m	3 m	PNP, Light switching	PNP, Dark switching	Cable with M8 male connector, 4-pin, 150 mm	HL18G-P4A3BL	1071037	
						HL18G-P4A3BM	1085852	

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.			
	4 ... 7 m	6.5 m	MOSFET, Dark switching	-	Cable open end, 2,000 mm	HL18-M1G2AB	1078479			
						HL18-M1G3AA	1072226			
						HL18-M1G3AD	1073696			
						HL18-M1G3AE	1085233			
						HL18-M1G3AH	1088646			
					Cable open end, 3,000 mm	HL18-M1K3AA	1097015			
					Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HL18-M5B3AA	1071046			
			HL18-M5B3AB	1082055						
			MOSFET, Light switching	-	Cable open end, 2,000 mm	HL18-L1G2AB	1078480			
						HL18-L1G2AG	1088839			
						HL18-L1G3AA	1078488			
						HL18-L1G3AG	1088848			
			Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	6.5 m	MOSFET, Light switching	-	Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HL18-L5B3AA	1077629
									HL18-L5B3AB	1084526
HL18-L5B3AF	1081785									
HL18-L5B3AH	1086665									
Cable with con- nector, Micro (1/2"-20), 4- pin, 2,000 mm	HL18-L5G3AE	1087806								
4 ... 7 m	6.5 m	MOSFET, Light switching		-	Cable open end, 2,000 mm	HL18-N1G2BB	1084762			
						HL18-N1G3BA	1075814			
						HL18-N1G3BB	1084770			
						HL18-N1G3BD	1078524			
						HL18-N1G3BH	1087213			
NPN, Light switching	NPN, Dark switching	Cable open end, 2,000 mm	HL18-N1G2BB	1084762						
			HL18-N1G3BA	1075814						
			HL18-N1G3BB	1084770						
			HL18-N1G3BD	1078524						
			HL18-N1G3BH	1087213						

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.			
					Cable with M12 male connector, 4-pin, 150 mm	HL18-N4B3BA	1080377			
						HL18-N4B3BB	1086953			
					Male connector M12, 4-pin	HL18-N4A3AA	1070994			
						HL18-N4A3BA	1071748			
						HL18-N4A3BB	1084894			
						HL18-N4A3BC	1088259			
						HL18-N4A3BD	1071771			
						HL18-N4A3BF	1085292			
						HL18-N4A3BG	1072065			
						HL18-N4A3BH	1079886			
			Male connector M8, 4-pin	HL18-N3A3BA	1071763					
				HL18-N3A3BB	1084641					
			NPN, Health output	Male connector M8, 4-pin	HL18-W3A3BA	1073691				
			PNP, Dark switching			NPN, Dark switching		Cable open end, 1,000 mm	HL18-A1E3AA	1075726
									Cable open end, 2,000 mm	HL18-A1G3AA
								HL18-A1G3BA		1071752
								HL18-A1G3BH		1082987
								Cable with M12 male connector, 4-pin, 150 mm	HL18-A4B3AA	1123165
									HL18-A4B3AE	1092075
HL18-A4B3BA	1085979									
HL18-A4B3BH	1082986									
Male connector M12, 4-pin	HL18-A4A2BE	1080595								
	HL18-A4A3AA	1070993								
	HL18-A4A3AD	1076151								
	HL18-A4A3BA	1071747								
	HL18-A4A3BE	1080715								
Male connector M12, 4-pin	HL18-A4A3BH	1086123								
	Male connector M8, 4-pin	HL18-A3A3BA	1071772							
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	6.5 m	PNP, Dark switching	NPN, Dark switching						
	4 ... 7 m	6.5 m	PNP, Dark switching	NPN, Dark switching						

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
				Not connected	Cable with connector M8, 3-pin, 150 mm	HL18-A2B3BA	1090938	
						HL18-A2B3BB	1094160	
						HL18-A2B3BC	1090997	
						HL18-A2B3BD	1090936	
					HL18-A2C3BE	1082157		
				PNP, Alarm output	Male connector M12, 4-pin	HL18-J4A3BH	1081856	
				PNP, Health output	Male connector M12, 4-pin	HL18-X4A3AA	1094390	
						HL18-X4A3BA	1082932	
				PNP, Light switching	NPN, Light switching	Cable open end, 1,000 mm	HL18-B1E3BB	1088137
							HL18-B1E3BE	1083177
			Cable open end, 2,000 mm			HL18-B1G3AA	1122634	
						HL18-B1G3BA	1071765	
						HL18-B1G3BB	1088138	
						HL18-B1G3BE	1083176	
			Cable open end, 9,000 mm			HL18-B1Y3BB	1101315	
			Cable with M12 male connector, 4-pin, 150 mm			HL18-B4B2BH	1077094	
						HL18-B4B3BA	1078610	
						HL18-B4B3BE	1079121	
				HL18-B4B3BH	1077132			
			PNP, Light switching	NPN, Light switching	Male connector M12, 4-pin	HL18-B4A3AA	1071006	
						HL18-B4A3AE	1088983	
HL18-B4A3BA	1071754							
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	6.5 m	PNP, Light switching	NPN, Light switching	Male connector M12, 4-pin	HL18-B4A3BH	1079905	
					Male connec- tor M8, 4-pin	HL18-B3A3BA	1078533	
				Not connected	Cable with connector M8, 3-pin, 1,000 mm	HL18-P2E3AA	1071051	
			PNP, Light switching	Not connected	Cable with connector M8, 3-pin, 1,000 mm	HL18-P2E3BA	1071762	
						HL18-P2E3BE	1081369	
						HL18-P2E3BH	1088045	
Cable with connector M8, 3-pin, 150 mm	HL18-B2B3BD	1090937						
	HL18-P2B3AA	1071049						
	HL18-P2B3BA	1071760						

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
				PNP, Dark switching	Cable with connector M8, 3-pin, 300 mm	HL18-P2C3AA	1071050	
						HL18-P2C3BA	1071761	
					Cable open end, 2,000 mm	HL18-P1G3AA	1071009	
						HL18-P1G3BA	1071757	
						HL18-P1G3BD	1071773	
					Cable with M12 male connector, 4- pin, 150 mm	HL18-P4B2BB	1086065	
						HL18-P4B3AA	1084038	
						HL18-P4B3BA	1078478	
					Cable with M12 male connector, 4- pin, 300 mm	HL18-P4B3BB	1083167	
						HL18-P4C3BA	1080351	
				Cable with M8 male con- nector, 4- pin, 150 mm		HL18-P3B3BA	1082609	
					HL18-P3B3BD	1079778		
					HL18-P3B3BE	1080548		
				Cable with M8 male con- nector, 4- pin, 300 mm	HL18-P3C3BA	1088537		
					Male connector M12, 4-pin	HL18-P4A2AA	1080683	
				PNP, Dark switching		Male connector M12, 4-pin	HL18-P4A2BA	1071954
					PNP, Light switching		PNP, Dark switching	Male connector M12, 4-pin
				HL18-P4A2BK		1071462		
				HL18-P4A3AA		1070985		
				HL18-P4A3AAS06		1081580		
HL18-P4A3AB	1080461							
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	6.5 m	PNP, Light switching	PNP, Dark switching	Male connector M12, 4-pin	HL18-P4A3AD	1071007	
						HL18-P4A3AE	1092921	
	4 ... 7 m	6.5 m	PNP, Light switching	PNP, Dark switching	Male connector M12, 4-pin	HL18-P4A3AF	1081784	
						HL18-P4A3AG	1088212	
						HL18-P4A3BA	1071743	
						HL18-P4A3BAP01	1084297	
						HL18-P4A3BAS17	1097925	
						HL18-P4A3BB	1078234	
						HL18-P4A3BC	1091085	
HL18-P4A3BD	1078751							

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.				
						HL18-P4A3BDS14	1091204				
						HL18-P4A3BE	1078823				
						HL18-P4A3BF	1087364				
						HL18-P4A3BG	1071755				
						HL18-P4A3BH	1098007				
						HL18-P4A3BI	1098121				
						Male connec- tor M8, 4-pin	HL18-P3A2AA	1088528			
							HL18-P3A2BB	1079074			
							HL18-P3A3AA	1088529			
							HL18-P3A3AD	1078873			
							HL18-P3A3BA	1078532			
							HL18-P3A3BB	1078776			
						PNP, Health output	Male connector M12, 4-pin	HL18-P3A3BD	1071767		
								HL18-P3A3BH	1076627		
					Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching			Cable with M12 male connector, 4- pin, 150 mm	HL18-V4A3AA	1071769
										HL18-F4B2AB	1122815
									Cable with M12 male connector, 4- pin, 2,000 mm	HL18-F4B3BB	1079109
										HL18-F4B3BE	1092071
Male connector M12, 4-pin	HL18-F4G3BD	1083630									
	HL18-F4A3AA	1088982									
Photoelec- tric retro-re- flective sen- sor, Dual lens	4 ... 7 m	6.5 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HL18-F4A3BD	1080328				
						HL18-F4A3BDS20	1102663				
					Male connec- tor M8, 4-pin	HL18-F3A3BD	1073695				
	7 ... 12 m	12 m	NPN, Light switching	NPN, Dark switching	Cable open end, 2,000 mm	HL18L-N1G5AB	1080702				
						HL18L-N1G5BA	1074775				
						HL18L-N1G5BB	1080703				
					Male connector M12, 4-pin	HL18L-N4A5BA	1074774				
			PNP, Dark switching	NPN, Dark switching	Male connector M12, 4-pin	HL18L-A4A5BA	1082084				
						HL18L-A4A5BB	1083753				
HL18L-A4A5BE	1081368										

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.		
			PNP, Light switching	NPN, Light switching	Cable with M12 male connector, 4- pin, 150 mm	HL18L-B4B5BH	1077097		
					Cable with M8 male con- nector, 4-pin, 2,000 mm	HL18L-B3G5BE	1071028		
			PNP, Dark switching	Not connected	Cable with connector M8, 3-pin, 1,000 mm	HL18L-B2E5AB	1086094		
					Cable open end, 2,000 mm	HL18L-P1G5AA	1071026		
						HL18L-P1G5BA	1071027		
					Cable with M12 male connector, 4- pin, 150 mm	HL18L-P4B5BB	1079039		
					Cable with M8 male con- nector, 4- pin, 150 mm	HL18L-P3B5BA	1080745		
					Male connector M12, 4-pin	HL18L-P4A5AA	1071024		
						HL18L-P4A5AE	1082244		
						HL18L-P4A5BA	1071025		
						HL18L-P4A5BB	1075008		
						HL18L-P4A5BE	1072411		
						HL18L-P4A5BH	1084269		
					Male connec- tor M8, 4-pin	HL18L-P3A5AA	1082240		
						HL18L-P3A5AE	1082241		
						HL18L-P3A5BA	1082242		
						HL18L-P3A5BE	1082243		
					Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 2,000 mm	HL18L-F1G5BB	1091311
							Male connector M12, 4-pin	HL18L-F4A5AE	1121965
								HL18L-F4A5BE	1094842
Through-beam photoelec- tric sensor	12 ... 20 m	20 m	MOSFET, Dark switching	-	Cable open end, 2,000 mm	HSE18-M1G1AA	1093878		
					Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HSE18-M5B1AB	1082360		
			MOSFET, Light switching	-	Cable open end, 2,000 mm	HSE18-L5B1AA	1077632		
						HSE18-N1G1BB	1091980		
			NPN, Light switching	NPN, Dark switching	Male connector M12, 4-pin	HSE18-N4A1BA	1074763		
						HSE18-A4A1AA	1078637		
			PNP, Dark switching	NPN, Dark switching	Male connector M12, 4-pin				

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	20 m	PNP, Dark switching	NPN, Dark switching	Male connector M12, 4-pin	HSE18-A4A1BA	1082363
			PNP, Light switching	NPN, Light switching	Cable with M12 male connector, 4- pin, 150 mm	HSE18-B4B1BA	1078481
					Male connector M12, 4-pin	HSE18-B4A1BA	1087754
			PNP, Alarm output	Male connector M12, 4-pin	HSE18-G4A1BA	1071955	
					HSE18-G4A1BC	1071015	
					HSE18-G4A1BI	1072410	
			PNP, Dark switching	Cable with M12 male connector, 4- pin, 150 mm	HSE18-P4B1BA	1080593	
					Cable with M8 male con- nector, 4- pin, 150 mm	HSE18-P3B1BA	1078791
						Male connector M12, 4-pin	HSE18-P4A1AA
					HSE18-P4A1AAS01	1081582	

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Connec- tion type	Type	Part no.			
						HSE18-P4A1AB	1088213			
						HSE18-P4A1BA	1074762			
						HSE18-P4A1BB	1078934			
						Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable with M12 male connector, 4- pin, 150 mm	HSE18-F4B1BA	1083170
								Male connector M12, 4-pin	HSE18-F4A1BG	1080331
			12 ... 20 m 20 ... 45 m	20 m		PNP, Dark switching	NPN, Dark switching	Cable open end, 1,000 mm	HSE18-A1E1BB	1087284
						PNP, Light switching	NPN, Light switching	Male connector M12, 4-pin	HSE18-B4A1AA	1078955
								Cable open end, 2,000 mm	HSE18-P1G1BA	1071841
								PNP, Dark switching		Male connec- tor M8, 4-pin
			20 ... 45 m	25 m		MOSFET, Dark switching	-	Cable open end, 2,000 mm	HSE18-M1G2AA	1080500
	Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HSE18-M5B2AA						1071047		
		HSE18-M5B2AB						1096726		
	MOSFET, Light switching	-				Cable open end, 2,000 mm	HSE18-L1G2AA	1092357		
						Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HSE18-L5B2AA	1084421		
							HSE18-L5B2AH	1092712		
	NPN, Light switching	NPN, Dark switching				Cable open end, 2,000 mm	HSE18-N1G2BE	1087236		
						Cable with M12 male connector, 4- pin, 150 mm	HSE18-N4B2BA	1078482		
	PNP, Dark switching	NPN, Dark switching				Cable open end, 2,000 mm	HSE18-A1G2AA	1070987		
							HSE18-A1G2BA	1071744		
	Through-beam photoelec- tric sensor	20 ... 45 m	25 m	PNP, Dark switching	NPN, Dark switching	Cable open end, 5,000 mm	HSE18-A1P2BA	1094765		
Cable with M12 male connector, 4- pin, 150 mm						HSE18-A4B2BA	1079044			
Male connector M12, 4-pin						HSE18-A4A2AA	1070998			
						HSE18-A4A2AB	1122608			
						HSE18-A4A2BA	1071750			

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.			
	20 ... 45 m	25 m	PNP, Dark switching	NPN, Dark switching	Male connector M12, 4-pin	HSE18-A4A2BD	1083150			
						HSE18-A4A2BE	1080594			
						HSE18-A4A2BH	1081222			
					Male connec- tor M8, 4-pin	HSE18-A3A2BA	1078534			
						HSE18-A3A2BH	1088644			
						Not connected	Cable with connector M8, 3-pin, 150 mm	HSE18-A2B2BA	1092292	
				PNP, Alarm output	Cable with M12 male connector, 4- pin, 5,000 mm	HSE18-J4P2BA	1097792			
						PNP, Light switching	NPN, Light switching	Cable open end, 2,000 mm	HSE18-B1G2AA	1070988
									HSE18-B1G2BA	1078527
								Male connector M12, 4-pin	HSE18-B4A2AA	1070999
							HSE18-B4A2BA		1071751	
							Male connec- tor M8, 4-pin		HSE18-B3A2BA	1071766
			Not connected	Cable with connector M8, 3-pin, 150 mm	HSE18-P2B2BA		1084438			
					HSE18-P2B2BB	1084439				
					HSE18-P2B2BE	1091097				
			PNP, Dark switching	Cable open end, 2,000 mm	HSE18-P1G2BA	1071842				
					Cable with M12 male connector, 4- pin, 150 mm	HSE18-P4B2BA	1078489			
						HSE18-P4B2BB	1078590			
					Cable with M12 male connector, 4- pin, 300 mm	HSE18-P4C2BA	1080357			
						Cable with M8 male con- nector, 4- pin, 150 mm	HSE18-P3B2BA	1078792		
					Male connector M12, 4-pin	HSE18-P4A2AA	1121203			
				HSE18-P4A2AB		1088214				
				HSE18-P4A2BA		1080592				
				HSE18-P4A2BB		1078931				
				HSE18-P4A2BD		1084859				
				HSE18-P4A2BE		1084859				
				Through-beam photoelec- tric sensor	20 ... 45 m	25 m	PNP, Light switching	PNP, Dark switching	Male connec- tor M8, 4-pin	HSE18-P3A2BA
			HSE18-P3A2BB							1080543
			HSE18-P3A2BE							1085622
			HSE18-P3A2BH							1083166

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- ction type	Type	Part no.	
	More than 45 m	60 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HSE18-F4A2BG	1080330	
			NPN, Light switching	NPN, Dark switching	Cable open end, 2,000 mm	HSE18L-N1G5BA	1074781	
					Cable with M12 male connector, 4- pin, 150 mm	HSE18L-N4B5BA	1078241	
					Male connector M12, 4-pin	HSE18L-N4A5AA	1083140	
			HSE18L-N4A5BA	1074778				
			PNP, Dark switching	NPN, Dark switching	Cable open end, 2,000 mm	HSE18L-A1G5AB	1098799	
						HSE18L-A1G5BA	1084296	
					Male connector M12, 4-pin	HSE18L-A4A5AB	1098800	
				PNP, Alarm output	Male connector M12, 4-pin	HSE18L-A4A5BA	1080173	
						HSE18L-J4A5BH	1088582	
				PNP, Light switching	NPN, Light switching	Cable with M12 male connector, 4- pin, 1,000 mm	HSE18L-B4E5BE	1092526
			Cable with M8 male con- nector, 4- pin, 150 mm				HSE18L-B3B5BB	1091976
							Male connector M12, 4-pin	HSE18L-B4A5AA
			PNP, Dark switching		Cable open end, 2,000 mm	HSE18L-P1G5AA	1076166	
						HSE18L-P1G5BA	1074780	
						Cable with M12 male connector, 4- pin, 1,000 mm	HSE18L-P4E5BB	1092525
					Cable with M12 male connector, 4- pin, 150 mm	HSE18L-P4B5BB	1079186	
						Male connector M12, 4-pin	HSE18L-P4A5BA	1074776
							HSE18L-P4A5BB	1078932
				Male connec- tor M8, 4-pin	HSE18L-P4A5BF	1129028		
					HSE18L-P4A5BG	1078565		
				PNP, Health output	Male connec- tor M8, 4-pin	HSE18L-P3A5AA	1071030	
			HSE18L-P3A5BB			1091335		
			Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HSE18L-V4A5BA	1099602	
						HSE18L-V4A5BB	1089133	
			Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HSE18L-F4A5BG	1080332	

- **Device version:** LineSpot
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric proximity sensor, Background suppression
- **Sensing range max.:** 150 ... 500 mm

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
200 mm	PNP, Light switching	NPN, Light switching	Male connector M12, 4-pin	HTB18-B4A4BB	1108434

- **Device version:** Bottom Mount
- **Mounting system type:** M18, nose / M18, base / 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	150 ... 500 mm	300 mm	MOSFET, Dark switching	-	Cable open end, 2,000 mm	HTB18B-M1G2AB	1105099
			PNP, Light switching	NPN, Light switching	Cable with M12 male connector, 4- pin, 150 mm	HTB18BL-B4B5BB	1101510
				PNP, Dark switching		HTB18B-P4B2AAD02	1101660
						HTB18B-P4B2AAD04	1101662
						HTB18B-P4B2AB	1101658
						HTB18B-P4B2BAD02	1101429
						HTB18B-P4B2BAD04	1101434
						HTB18B-P4B2BB	1101426
Photoelectric proximity sen- sor, Energetic	500 ... 1000 mm	600 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 2,000 mm	HTE18B-F4B2BH	1101407
			MOSFET, Dark switching	-		HTE18B-M1G1AB	1101653
		1,000 mm	MOSFET, Light switching	-	Cable open end, 2,000 mm	HTE18B-L1G1AB	1101656
						HTE18B-L1G1AH	1110562
			PNP, Light switching	PNP, Dark switching	Cable with M12 male connector, 4- pin, 150 mm	HTE18B-P4B1AB	1101637
				HTE18B-P4B1BB		1101406	
		Photoelec- tric retro-re- flective sen- sor, Dual lens	2 ... 4 m	3 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 2,000 mm
MOSFET, Dark switching	-				Cable open end, 2,000 mm	HL18B-M1G3AA	
			HL18B-M1G3AH	1106151			
			Cable with con- nector, Micro (1/2"-20), 4- pin, 150 mm	HL18B-M5B3AH		1110563	
MOSFET, Light switching	-			Cable open end, 2,000 mm	HL18B-L1G3AA	1101635	
4 ... 7 m	6.5 m		PNP, Light switching	PNP, Dark switching	Cable with M12 male connector, 4- pin, 150 mm	HL18B-P4B3AA	1101632
			Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching		HL18B-F4B3BH	1101380

Sensor/ detection principle	Sensing range max.	Sensing range	Switching output Q1	Switching output Q2	Conne- tion type	Type	Part no.
	7 ... 12 m	12 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching		HL18BL-F4B5BH	1101508
Through-beam photoelec- tric sensor	12 ... 20 m	20 m	MOSFET, Dark switching	-	Cable open end, 2,000 mm	HSE18B-M1G1AA	1101665
			MOSFET, Light switching	-	Cable open end, 2,000 mm	HSE18B-L1G1AA	1101668
			NPN, Light switching	NPN, Dark switching	Cable with M12 male connector, 4- pin, 150 mm	HSE18B-N4B1AA	1110564
			PNP, Light switching	PNP, Dark switching		HSE18B-P4B1AA	1101664
						HSE18B-P4B1BA	1101494
	20 ... 45 m	25 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching		HSE18B-F4B2BH	1101496
	More than 45 m	60 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching		HSE18BL-F4B5BH	1101630

- **Device version:** IO-Link
- **Communication interface:** IO-Link
- **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	150 ... 500 mm	300 mm	PNP, Light switching	PNP, Dark switching	Cable open end, 2,000 mm	HTB18-P1G2BLA00	1100040
					Male connector M12, 4-pin	HTB18-P4A2BLA00	1100034
					Male connec- tor M8, 4-pin	HTB18-P3A2BLA00	1100039
			Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HTB18L-F4A5BLA00	1100042
					Male connec- tor M8, 4-pin	HTB18L-F3A5BLA00	1100045
Photoelectric proximity sen- sor, Energetic	500 ... 1000 mm	600 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HTE18-F4A2BLA00	1100047
		1,000 mm	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HTE18-F4A1BLA00	1100048
Photoelectric proximity sen- sor, Foreground suppression	150 ... 500 mm	300 mm	PNP, Light switching	PNP, Dark switching	Male connector M12, 4-pin	HTF18-P4A2BLA00	1100041
			Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HTF18L-F4A5BLA00	1100046
Photoelec- tric retro-re- flective sen- sor, Dual lens	2 ... 4 m	3 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HL18G-F4A3BLA00	1100056
	4 ... 7 m	6.5 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Cable open end, 2,000 mm	HL18-F1G3BLA00	1100054
					Male connector M12, 4-pin	HL18-F4A2BLA00	1106667
						HL18-F4A3BLA00	1100049
	7 ... 12 m	12 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connec- tor M8, 4-pin	HL18-F3A3BLA00	1100053
					Male connector M12, 4-pin	HL18L-F4A5BLA00	1100057
					Male connec- tor M8, 4-pin	HL18L-F3A5BLA00	1100060
Through-beam photoelec- tric sensor	12 ... 20 m	20 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HSE18-F4A1BLA00	1100062
	20 ... 45 m	25 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HSE18-F4A2BLA00	1100061
	More than 45 m	60 m	Push-pull: PNP/NPN, Light switching	Push-pull: PNP/NPN, Dark switching	Male connector M12, 4-pin	HSE18L-F4A5BLA00	1100063

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