



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 ... 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 % reflectance (referred to 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

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:** 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.
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 connector, 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
			Cable with connector, Micro (1/2"-20), 4-pin, 150 mm	HL18-L5B3AA	1077629
				HL18-L5B3AB	1084526
				HL18-L5B3AF	1081785
6.5 m	MOSFET, Light switching	–	HL18-L5B3AH	1086665	
			Cable with connector, Micro (1/2"-20), 4-pin, 2,000 mm	HL18-L5G3AE	1087806
	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
			Cable with M12 male connector, 4-pin, 150 mm	HL18-N4B3BA	1080377
				HL18-N4B3BB	1086953

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
			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
				HL18-A1G3AA	1071000
			Cable open end, 2,000 mm	HL18-A1G3BA	1071752
				HL18-A1G3BH	1082987
				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
6.5 m	PNP, Dark switching	NPN, Dark switching	Male connector M12, 4-pin	HL18-A4A3AD	1076151
				HL18-A4A3BA	1071747
				HL18-A4A3BE	1080715
				HL18-A4A3BH	1086123
			Male connector M8, 4-pin	HL18-A3A3BA	1071772
		Not connected	Cable with connector M8, 3-pin, 150 mm	HL18-A2B3BA	1090938
				HL18-A2B3BB	1094160
				HL18-A2B3BC	1090997
				HL18-A2B3BD	1090936
			Cable with connector M8, 3-pin, 300 mm	HL18-A2C3BE	1082157

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
		PNP, Alarm output	Male connector M12, 4-pin	HL18-J4A3BH	1081856
		PNP, Health output	Male connector M12, 4-pin	HL18-X4A3AA	1094390
	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
	PNP, Light switching	NPN, Light switching	Cable with M12 male connector, 4-pin, 150 mm	HL18-B4B3BE	1079121
				HL18-B4B3BH	1077132
				HL18-B4A3AA	1071006
				HL18-B4A3AE	1088983
			Male connector M12, 4-pin	HL18-B4A3BA	1071754
				HL18-B4A3BH	1079905
				HL18-B3A3BA	1078533
			Male connector M8, 4-pin	HL18-B3A3BA	1078533
		Not connected	Cable with connector M8, 3-pin, 1,000 mm	HL18-P2E3AA	1071051
6.5 m	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
			Cable with connector M8, 3-pin, 300 mm	HL18-P2C3AA	1071050
				HL18-P2C3BA	1071761
		PNP, Dark switching	Cable open end, 2,000 mm	HL18-P1G3AA	1071009
				HL18-P1G3BA	1071757

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
				HL18-P1G3BD	1071773
				HL18-P4B2BB	1086065
				HL18-P4B3AA	1084038
				HL18-P4B3BA	1078478
				HL18-P4B3BB	1083167
			Cable with M12 male connector, 4-pin, 300 mm	HL18-P4C3BA	1080351
			Cable with M8 male connector, 4-pin, 150 mm	HL18-P3B3BA	1082609
				HL18-P3B3BD	1079778
				HL18-P3B3BE	1080548
			Cable with M8 male connector, 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-P4A2BB	1081196
				HL18-P4A2BK	1071462
				HL18-P4A3AA	1070985
				HL18-P4A3AAS06	1081580
				HL18-P4A3AB	1080461
				HL18-P4A3AD	1071007
				HL18-P4A3AE	1092921
				HL18-P4A3AF	1081784
6.5 m	PNP, Light switching	PNP, Dark switching	Male connector M12, 4-pin	HL18-P4A3AG	1088212
				HL18-P4A3BA	1071743
				HL18-P4A3BAP01	1084297
				HL18-P4A3BAS17	1097925
				HL18-P4A3BB	1078234
				HL18-P4A3BC	1091085
				HL18-P4A3BD	1078751
				HL18-P4A3BDS14	1091204
				HL18-P4A3BE	1078823
				HL18-P4A3BF	1087364

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
				HL18-P4A3BG	1071755
				HL18-P4A3BH	1098007
				HL18-P4A3BI	1098121
			Male connector M8, 4-pin	HL18-P3A2AA	1088528
				HL18-P3A2BB	1079074
				HL18-P3A3AA	1088529
				HL18-P3A3AD	1078873
				HL18-P3A3BA	1078532
				HL18-P3A3BB	1078776
				HL18-P3A3BD	1071767
				HL18-P3A3BH	1076627
			PNP, Health output	HL18-V4A3AA	1071769
	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Cable with M12 male connector, 4-pin, 150 mm	HL18-F4B2AB	1122815
				HL18-F4B3BB	1079109
				HL18-F4B3BE	1092071
			Cable with M12 male connector, 4-pin, 2,000 mm	HL18-F4G3BD	1083630
			Male connector M12, 4-pin	HL18-F4A3AA	1088982
				HL18-F4A3BD	1080328
				HL18-F4A3BDS20	1102663
			Male connector M8, 4-pin	HL18-F3A3BD	1073695

- **Device version:** Standard
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric retro-reflective sensor, Dual lens
- **Sensing range max.:** 2 ... 4 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
3 m	MOSFET, Dark switching	–	Cable open end, 2,000 mm	HL18G-M1G3AL	1080322
3 m	MOSFET, Dark switching	–	Cable open end, 2,000 mm	HL18T-M1G3AB	1077659
			Cable with connector, 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

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
			Male connector M8, 4-pin	HL18T-N4A3BF	1085855
				HL18T-N4A3BG	1086995
				HL18T-N4A3BH	1083398
				HL18G-N3A3BL	1085238
				HL18G-N3A3BM	1088878
				HL18G-N3A3BN	1088879
				HL18G-N3A3BP	1092210
				HL18T-N3A3AB	1082591
	PNP, Dark switching	NPN, Dark switching	Cable open end, 2,000 mm	HL18G-A1G3AL	1082073
				HL18G-A1G3BL	1082038
			Cable open end, 3,000 mm	HL18T-A1K3BB	1098305
			Cable with M12 male connector, 4-pin, 150 mm	HL18T-A4B3AB	1123349
			Male connector M12, 4-pin	HL18G-A4A3BM	1088546
				HL18G-A4A3BP	1090238
				HL18T-A4A3BF	1092798
				HL18T-A4A3BH	1087971
		Not connected	Cable with connector M8, 3-pin, 150 mm	HL18G-A2B3AL	1084976
				HL18G-A2B3BL	1084977
				HL18G-A2B3BP	1084991
		NPN, Light switching	Cable with M12 male connector, 4-pin, 150 mm	HL18G-B4B3BP	1077133
				HL18T-B4B3AB	1123350
3 m	PNP, Light switching	NPN, Light switching	Male connector M12, 4-pin	HL18G-B4A3AL	1080257
				HL18T-B4A3BH	1080225
			Cable with connector M8, 3-pin, 1,000 mm	HL18T-B2E3AB	1086095
				HL18G-P2B3BL	1092901
		Not connected	Cable with connector M8, 3-pin, 150 mm	HL18T-P2G3BB	1079923
			Cable with connector M8, 3-pin, 2,000 mm	HL18G-P1G3AL	1071038
			Cable open end, 2,000 mm	HL18G-P1G3BL	1071040
				HL18T-P1G3AB	1071042
		PNP, Dark switching	Cable open end, 2,000 mm	HL18T-P1G3BB	1074767

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
			Cable with M12 male connector, 4-pin, 150 mm	HL18G-P4B3BL	1081918
				HL18G-P4B3BN	1093458
				HL18T-P4B3BB	1083488
			Cable with M8 male connector, 4-pin, 150 mm	HL18T-P3B3BB	1095544
			Male connector M12, 4-pin	HL18G-P4A3AL	1071036
				HL18G-P4A3BL	1071037
				HL18G-P4A3BM	1085852
				HL18T-P4A3AB	1071041
				HL18T-P4A3BB	1074587
				HL18T-P4A3BG	1093236
				HL18T-P4A3BH	1078824
			Male connector M8, 4-pin	HL18G-P3A3AL	1083544
				HL18T-P3A3AB	1071043
				HL18T-P3A3BB	1080597
				HL18T-P3A3BG	1093149
		PNP, Health output	Cable open end, 2,000 mm	HL18G-V1G3BL	1072225
			Male connector M8, 4-pin	HL18G-V3A3BL	1071953
				HL18G-V3A3BN	1071039
	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Cable with M12 male connector, 4-pin, 150 mm	HL18G-F4B3BM	1100283
			Male connector M12, 4-pin	HL18G-F4A3BN	1080329

- **Device version:** Standard
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric retro-reflective sensor, Dual lens
- **Sensing range max.:** 7 ... 12 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
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

Sensing range	Switching output Q1	Switching output Q2	Connection 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 connector, 4-pin, 2,000 mm	HL18L-B3G5BE	1071028
		Not connected	Cable with connector M8, 3-pin, 1,000 mm	HL18L-B2E5AB	1086094
		PNP, Dark switching	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 connector, 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 connector 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

- **Device version:** Standard
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** 12 ... 20 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
20 m	MOSFET, Dark switching	–	Cable open end, 2,000 mm	HSE18-M1G1AA	1093878

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
	MOSFET, Light switching	-	Cable with connector, Micro (1/2"-20), 4-pin, 150 mm	HSE18-M5B1AB	1082360
				HSE18-L5B1AA	1077632
	NPN, Light switching	NPN, Dark switching	Cable open end, 2,000 mm	HSE18-N1G1BB	1091980
			Male connector M12, 4-pin	HSE18-N4A1BA	1074763
	PNP, Dark switching	NPN, Dark switching	Male connector M12, 4-pin	HSE18-A4A1AA	1078637
				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 connector, 4-pin, 150 mm	HSE18-P3B1BA	1078791
			Male connector M12, 4-pin	HSE18-P4A1AA	1075545
				HSE18-P4A1AAS01	1081582
				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

- **Device version:** Standard
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** 12 ... 20 m, 20 ... 45 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
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
		PNP, Dark switching	Cable open end, 2,000 mm	HSE18-P1G1BA	1071841
			Male connector M8, 4-pin	HSE18-P3A1BH	1079014
		PNP, Health output	Cable with M12 male connector, 4-pin, 150 mm	HSE18-V4B1BA	1088428

- **Device version:** Standard
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** 20 ... 45 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
25 m	MOSFET, Dark switching	–	Cable open end, 2,000 mm	HSE18-M1G2AA	1080500
			Cable with connector, 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 connector, 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
			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
25 m	PNP, Dark switching	NPN, Dark switching	Male connector M12, 4-pin	HSE18-A4A2BD	1083150
				HSE18-A4A2BE	1080594
				HSE18-A4A2BH	1081222

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
			Male connector 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 connector 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 connector, 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
			Male connector M8, 4-pin	HSE18-P3A2BA	1082641
				HSE18-P3A2BB	1080543
				HSE18-P3A2BE	1085622
				HSE18-P3A2BH	1083166
	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Male connector M12, 4-pin	HSE18-F4A2BG	1080330

- **Device version:** Standard
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** More than 45 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
60 m	NPN, Light switching	NPN, Dark switching	Cable open end, 2,000 mm	HSE18L-N1G5BA	1074781

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
			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
				HSE18L-A4A5BA	1080173
		PNP, Alarm output	Male connector M12, 4-pin	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 connector, 4-pin, 150 mm	HSE18L-B3B5BB	1091976
			Male connector M12, 4-pin	HSE18L-B4A5AA	1071029
		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
				HSE18L-P4A5BA	1074776
				HSE18L-P4A5BB	1078932
				HSE18L-P4A5BG	1078565
			Male connector M8, 4-pin	HSE18L-P3A5AA	1071030
				HSE18L-P3A5BB	1091335
		PNP, Health output	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:** Standard
- **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.
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

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
	MOSFET, Light switching		Cable with connector, Micro (1/2"-20), 4-pin, 150 mm	HTB18-M5B2AAD04	1087361
				HTB18-M5B2AB	1079042
				HTB18-M5B2AH	1078933
			Cable with connector, Micro (1/2"-20), 4-pin, 2,000 mm	HTB18-M5G2AB	1079043
		-	Cable open end, 2,000 mm	HTB18-L1G2AB	1078980
				HTB18-L1G2AF	1078475
				HTB18-L1G2AG	1078476
			Cable with connector, Micro (1/2"-20), 4-pin, 150 mm	HTB18-L5B2AAD04	1080319
				HTB18-L5B2AB	1078825
				HTB18-L5B2AH	1091041
			Cable with connector, Micro (1/2"-20), 4-pin, 2,000 mm	HTB18-L5G2AB	1080675
			Cable with connector, Micro (1/2"-20), 4-pin, 300 mm	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
				HTB18L-N1G5BB	1074788
			Cable with M12 male connector, 4-pin, 300 mm	HTB18-N4C2BF	1086145
			Cable with M8 male connector, 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
300 mm	NPN, Light switching	NPN, Dark switching	Male connector M12, 4-pin	HTB18-N4A2BH	1079885
				HTB18L-N4A5BB	1074782
				HTB18L-N4A5BF	1085418
			Male connector M8, 4-pin	HTB18-N3A2BAD02	1090598
				HTB18-N3A2BB	1078511
				HTB18-N3A2BG	1088510
		NPN, Health output	Male connector M12, 4-pin	HTB18L-N3A5AB	1071033
				HTB18L-W4A5BB	1085700

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
		Not connected	Cable with connector M8, 3-pin, 150 mm	HTB18-N2B2BB	1081111
			Cable with connector M8, 3-pin, 300 mm	HTB18L-N2C5BDD02	1078769
	PNP, Dark switching	NPN, Dark switching	Cable open end, 2,000 mm	HTB18L-N2C5BG	1078775
				HTB18-A1G2BB	1078525
			Cable with M12 male connector, 4-pin, 1,000 mm	HTB18-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
				HTB18L-A4A5BH	1083157
			Male connector M8, 4-pin	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	
300 mm	PNP, Light switching	NPN, Light switching	Cable with M12 male connector, 4-pin, 300 mm	HTB18-B4C2BB	1082348
				HTB18-B4A2AAD06	1080372
			Male connector M12, 4-pin	HTB18-B4A2AB	1070989
				HTB18-B4A2AED06	1123667
				HTB18-B4A2AG	1088216
				HTB18-B4A2BAD02	1078535
				HTB18-B4A2BAD04	1078536

Sensing range	Switching output Q1	Switching output Q2	Connection 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 connector 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
			Cable open end, 2,000 mm	HTB18-P1G2AB	1071001
		PNP, Dark switching	Cable open end, 2,000 mm	HTB18-P1G2AF	1071461
300 mm	PNP, Light switching	PNP, Dark switching	Cable open end, 2,000 mm	HTB18-P1G2AG	1078474
				HTB18-P1G2BAD06	1086534
				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

Sensing range	Switching output Q1	Switching output Q2	Connection 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 connector, 4-pin, 1,000 mm	HTB18-P3E2BB	1100871
			Cable with M8 male connector, 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 connector, 4-pin, 500 mm	HTB18-P3D2BAD02	1082640
			Male connector M12, 4-pin	HTB18-P4A2AAD02	1071020
				HTB18-P4A2AAD04	1071021
			PNP, Dark switching	HTB18-P4A2AAD06	1076301
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

Sensing range	Switching output Q1	Switching output Q2	Connection 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 connector 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

- **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:** Standard
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric proximity sensor, Energetic
- **Sensing range max.:** 500 ... 1000 mm

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
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 connector, Micro (1/2"-20), 4-pin, 150 mm	HTE18-L5B2AF	1081783
	NPN, Light switching	NPN, Alarm output	Male connector M8, 4-pin	HTE18-H3A2BF	1073692

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
	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	HTE18-P2B2BB	1092900
		PNP, Alarm output	Male connector M12, 4-pin	HTE18-G4A2AA	1071014
				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 connector, 4-pin, 150 mm	HTE18-P3B2BH	1082313
			Male connector M12, 4-pin	HTE18-P4A2AF	1081782
				HTE18-P4A2BB	1074755
				HTE18-P4A2BH	1082774
			Male connector M8, 4-pin	HTE18-P3A2AE	1083018
				HTE18-P3A2AH	1083858
				HTE18-P3A2BB	1077647
				HTE18-P3A2BH	1084798
		PNP, Health output	Male connector M8, 4-pin	HTE18-V3A2AG	1073690
	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Male connector M12, 4-pin	HTE18-F4A2BF	1086340
				HTE18-F4A2BH	1086341

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
1,000 mm	MOSFET, Dark switching	–	Cable open end, 2,000 mm	HTE18-M1G1AB	1078477
			Cable with connector, 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
				HTE18-N4A1BH	1085030
			Male connector M8, 4-pin	HTE18-N3A1BB	1078529
		Not connected	Cable with connector M8, 3-pin, 150 mm	HTE18-N2B1BB	1081112
			HTE18-N2B1BH	1081110	
	PNP, Dark switching	NPN, Dark switching	Cable open end, 2,000 mm	HTE18-A1G1BB	1071768
				HTE18-A1G1BG	1071463
1,000 mm	PNP, Dark switching	NPN, Dark switching	Male connector M12, 4-pin	HTE18-A4A1AB	1071008
				HTE18-A4A1BB	1071756
				HTE18-A4A1BH	1081341
			Male connector 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

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

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

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
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	1071045
				HTF18-P1G2BB	1075808
				HTF18L-P1G5BB	1075812
			Cable with M12 male connector, 4-pin, 150 mm	HTF18-P4B2AH	1101929
			Cable with M8 male connector, 4-pin, 150 mm	HTF18-P3B2BB	1097085
			Cable with M8 male connector, 4-pin, 2,000 mm	HTF18-P3G2BB	1074590
			Male connector M12, 4-pin	HTF18-P4A2AB	1071044
				HTF18-P4A2BB	1075806
				HTF18L-P4A5BB	1075810
			Male connector M8, 4-pin	HTF18-P3A2BB	1078491

- **Device version:** Bottom Mount
- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **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.
6.5 m	MOSFET, Dark switching	–	Cable open end, 2,000 mm	HL18B-M1G3AA	1101633
				HL18B-M1G3AH	1106151
			Cable with connector, Micro (1/2"-20), 4-pin, 150 mm	HL18B-M5B3AH	1110563
	MOSFET, Light switching	–	Cable open end, 2,000 mm	HL18B-L1G3AA	1101635
	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

- **Device version:** Bottom Mount
- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric retro-reflective sensor, Dual lens
- **Sensing range max.:** 2 ... 4 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
3 m	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Cable with M12 male connector, 4-pin, 150 mm	HL18BG-F4B3BP	1101631

- **Device version:** Bottom Mount
- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric retro-reflective sensor, Dual lens
- **Sensing range max.:** 7 ... 12 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
12 m	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Cable with M12 male connector, 4-pin, 150 mm	HL18BL-F4B5BH	1101508

- **Device version:** Bottom Mount
- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** 12 ... 20 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
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

- **Device version:** Bottom Mount
- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** 20 ... 45 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
25 m	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Cable with M12 male connector, 4-pin, 150 mm	HSE18B-F4B2BH	1101496

- **Device version:** Bottom Mount
- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** More than 45 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
60 m	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Cable with M12 male connector, 4-pin, 150 mm	HSE18BL-F4B5BH	1101630

- **Device version:** Bottom Mount
- **Mounting system type:** M18, nose / M18, base / 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.
300 mm	MOSFET, Dark switching	–	Cable open end, 2,000 mm	HTB18B-M1G2AB	1105099
	PNP, Light switching	NPN, Light switching PNP, Dark switching	Cable with M12 male connector, 4-pin, 150 mm	HTB18BL-B4B5BB	1101510
				HTB18B-P4B2AAD02	1101660
				HTB18B-P4B2AAD04	1101662
				HTB18B-P4B2AB	1101658
				HTB18B-P4B2BAD02	1101429
				HTB18B-P4B2BAD04	1101434
				HTB18B-P4B2BB	1101426

- **Device version:** Bottom Mount
- **Mounting system type:** M18, nose / M18, base / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric proximity sensor, Energetic
- **Sensing range max.:** 500 ... 1000 mm

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
600 mm	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Cable with M12 male connector, 4-pin, 150 mm	HTE18B-F4B2BH	1101407
1,000 mm	MOSFET, Dark switching	–	Cable open end, 2,000 mm	HTE18B-M1G1AB	1101653
	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

- **Device version:** IO-Link
- **Communication interface:** IO-Link
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **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.
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
			Male connector M8, 4-pin	HL18-F3A3BLA00	1100053

- **Device version:** IO-Link
- **Communication interface:** IO-Link
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric retro-reflective sensor, Dual lens
- **Sensing range max.:** 2 ... 4 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
3 m	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Male connector M12, 4-pin	HL18G-F4A3BLA00	1100056

- **Device version:** IO-Link
- **Communication interface:** IO-Link
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric retro-reflective sensor, Dual lens
- **Sensing range max.:** 7 ... 12 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
12 m	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Male connector M12, 4-pin	HL18L-F4A5BLA00	1100057
			Male connector M8, 4-pin	HL18L-F3A5BLA00	1100060

- **Device version:** IO-Link
- **Communication interface:** IO-Link
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** 12 ... 20 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
20 m	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Male connector M12, 4-pin	HSE18-F4A1BLA00	1100062

- **Device version:** IO-Link
- **Communication interface:** IO-Link
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** 20 ... 45 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
25 m	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Male connector M12, 4-pin	HSE18-F4A2BLA00	1100061

- **Device version:** IO-Link
- **Communication interface:** IO-Link
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Through-beam photoelectric sensor
- **Sensing range max.:** More than 45 m

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
60 m	Push-pull: PNP/ NPN, Light switching	Push-pull: PNP/ NPN, Dark switching	Male connector M12, 4-pin	HSE18L-F4A5BLA00	1100063

- **Device version:** IO-Link
- **Communication interface:** IO-Link
- **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.
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 connector 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 connector M8, 4-pin	HTB18L-F3A5BLA00	1100045

- **Device version:** IO-Link
- **Communication interface:** IO-Link
- **Mounting system type:** M18, nose / side (24.1 ... 25.4 mm)
- **Sensor/ detection principle:** Photoelectric proximity sensor, Energetic
- **Sensing range max.:** 500 ... 1000 mm

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
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

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

Sensing range	Switching output Q1	Switching output Q2	Connection type	Type	Part no.
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

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