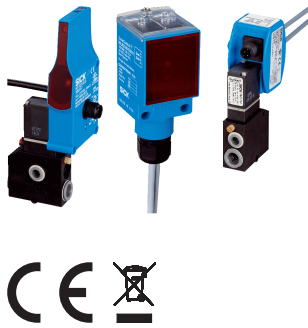


ZoneControl

Zero pressure accumulation made easy

MULTITASK PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	20.6 mm x 99.2 mm x 48.9 mm 59.9 mm x 151.9 mm x 48.9 mm 50 mm x 125.3 mm x 48.9 mm 50 mm x 147.4 mm x 48.9 mm 49.9 mm x 135.4 mm x 48.9 mm 54.6 mm x 131.5 mm x 46 mm 31 mm x 105 mm x 74 mm 31 mm x 93 mm x 74 mm 51.5 mm x 151.4 mm x 46 mm 18 mm x 99.5 mm x 46 mm 51.5 mm x 157 mm x 46 mm 31 mm x 110 mm x 83 mm 30 mm x 110 mm x 70 mm 45 mm x 73.7 mm x 48.6 mm
Sensing range max.	60 mm ... 900 mm 250 mm ... 1,500 mm 250 mm ... 5,000 mm 300 mm ... 900 mm 100 mm ... 900 mm 3.9 in ... 35.4 in 0 m ... 9 m
Light source	LED
Type of light	Infrared light / visible red light (depending on type)
Enclosure rating	IP67 IP65 IP54 IP40 NEMA 3
Housing material	Plastic ABS Plastic Glass fiber reinforced ABS plastic
Adjustment	Potentiometer, 9 turns Potentiometer None

Product description

Just as traffic lights regulate the flow of traffic in towns and cities, SICK's ZoneControl solutions control the flow of products on a belt – without the need for a PLC or another type of external control. ZoneControl by SICK consists of three product families to control the flow of products. This procedure is called zero pressure accumulation (ZPA). ZoneControl solutions are extremely easy to install (plug and play): Connect the ZoneControl products in series, install the sensor, and connect the pneumatic line or the connection to the motor-driven rollers. There is, therefore, no need for PLC programming, laptops, and expensive cabling. Each product contains one of two types of startup logic: single feed (with or without sleep function) and block (slug) feed, depending on the requirements of the application. So that the various requirements can be met, there are three mounting configurations to choose from: mounting between the rollers (R/IR), mounting on the side frame (ZLM), or mounting above the belt (WLR)

At a glance

- Three mounting types: mounting between the rollers (R/IR), mounting on the side frame (ZLM), or mounting above the belt (WLR)
- Three types of logic: single feed, single feed with sleep function, block (slug) feed
- Up to 50 ZoneControl solutions can be connected in series.
- Fully animated simulation to ease selection and implementation
- Standard cut lengths of 1 m (3 ft) or 2 m (6 ft)

Your benefits

- Largest Zero Pressure Accumulation portfolio on the market gives users a wide variety of choices for their application
- SICK ZoneControl solutions control the flow of packages a on conveyor without a PLC or other external control
- Quick setup since no programming, no laptop, and no PLC interfacing are required
- With 20 years of ZoneControl experience and personal support from SICK experts, all application and product issues are quickly addressed
- Quick expansion or modification of the conveyor due to the modular design

Ordering information

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

- **Sub product family:** IR
- **Sensing range max.:** 60 mm 900 mm
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Switching output:** PNP
- **Adjustment:** Potentiometer
- **Voltage type:** DC

Connection type	Type	Part no.
Cable	IRT-P210C93S25	1083189
Male connector	IRT-P211C63	1063127
	IRT-P212C63	1063116
	IRT-P212C93S24	1082537
	IRTF-P211A10	1063128
	IRT-P211A10	1063117
	IRT-P211A10S01	1063119
	IRT-P212A10	1063123
Male connector	IRT-P210E50S17	1063193
	IRT-P211E30S07	1063110
	IRT-P211E40	1063103
	IRT-P211E50	1063104
	IRT-P212E40	1063108
	IRT-P310E50S15	1063191
	IRTT-P210E50S14	1063189
	IRXT-P210E50S16	1063192
	IRT-P211A11	1063118
	IRT-P212A11	1063124
	IRTF-P210E41S09	1063112
	IRTN-P210E41S08	1063113
	IRT-P210E31S04	1063106
	IRT-P211E31S02	1063111
	IRT-P211E31S03	1063105
	IRT-P211E41	1063107
	IRT-P212E41	1063109
	IRT-P006C83S05	1063097
	IRT-P231C83	1063101
	IRT-P232C75	1063099
	IRT-P232C83	1063100
	IRT-P232C83S19	1068794
	IRX-P232C83S21	1077344
	IRT-P006C83S06	1063098
	IRT-P212C73	1063102

- **Sub product family:** IR
- **Sensing range max.:** 250 mm 1,500 mm
- **Sensor principle:** Photoelectric retro-reflective sensor
- **Switching output:** PNP
- **Connection type:** male connector
- **Adjustment:** Potentiometer
- **Voltage type:** DC

Type	Part no.
IRL-P211E50	1063186
IRL-P212E40	1085231
IRL-P211E41	1063185

- **Sub product family:** R
- **Sensing range max.:** 60 mm 900 mm
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Adjustment:** Potentiometer

Switching output	Switching mode	Connection type	Voltage type	Type	Part no.
FET	Dark switching	Cable	AC/DC	RTF-M2117	1063198
				RT-M2117	1063197
				RTN-M2117	1063199
	Light switching	Cable	AC/DC	RTF-M1117	1063195
				RT-M1117	1063194
				RTN-M1117	1063196
NPN	Dark switching	Cable with male connector	DC	RT-N2427	1063154
				RT-N2525	1063159
				RT-N2526	1063160
				RT-N2528	1063161
	Light switching	Male connector	DC	RT-N7231	1063164
		Cable with terminal connection	DC	RT-N1000S05	1063143
				RT-N1000S06	1063144
				RT-N1000S07	1063145
				RT-N1620S08	1063146
				RT-N1623	1063151
				RT-N1627	1063152
		Cable with male connector	DC	RT-N1526	1085177
	Light/dark switching	Cable	DC	RT-N3117	1063180
		Male connector	DC	RT-N3221	1063162
NPN, PNP	Light switching	Cable with terminal connection	DC	RT-B1624S04	1063150

Switching output	Switching mode	Connection type	Voltage type	Type	Part no.
PNP	Dark switching	Cable	DC	RT-N2525S16	1065740
				RT-N2527S17	1065741
				RT-N2528S18	1065742
		Cable with male connector	DC	RT-P2233	1063132
				RT-P2420S03	1063133
				RT-P2422	1063176
				RT-P6423	1063167
PNP	Dark switching	Cable with male connector	DC	RT-P2525	1063156
				RT-P2527	1063157
				RT-P2528	1063158
		Male connector	DC	RT-P2221	1077270
				RT-P2231	1063190
	Light switching	Cable with terminal connection	DC	RT-P1620S01	1063147
				RT-P1625	1063149
				RT-P4000S02	1063169
		Cable	DC	RT-P1627	1066844
				RT-P4117	1063168
		Cable with male connector	DC	RT-P1223	1063135
				RT-P1233	1063136
		Male connector	DC	RT-P1221S10	1063163
	Light/dark switching	Cable	DC	RTF-P3117	1063181
				RTN-P3117	1063182
				RT-P3117	1063179
				RTQ-P4117	1063183
		Cable with male connector	DC	RT-P3233	1081692
				RT-P3223	1063130
				RT-P3227	1078930
		Male connector	DC	RTF-P3221	1063171
				RTN-P3221	1063172
				RT-P3221	1063129
				RT-P3231	1063131
				RTQ-P4221	1063173
PNP, NPN	Dark switching	Cable	DC	RT-B2117	1063178
				RT-B2118	1063155
				RT-B2118S12	1065577
		Male connector	DC	RT-B2221	1063175
	Light switching	Cable	DC	RT-B1117	1063153
		Male connector	DC	RT-B1221	1063174
	Light/dark switching	Cable	DC	RTQ-B1117	1063184
		Male connector	DC	RTQ-B1221	1063177

- **Sub product family:** WLR
- **Sensing range max.:** 250 mm 5,000 mm
- **Sensor principle:** Photoelectric retro-reflective sensor

Switching output	Switching mode	Connection type	Adjustment	Voltage type	Type	Part no.
PNP	Light switching	Male connector	Potentiometer	DC	WLR1-P410S01	1025651

- **Sub product family:** ZLM
- **Switching output:** PNP
- **Connection type:** Cable with female connector
- **Voltage type:** DC

Adjustment	Type	Part no.
-	ZLM1-B1011A10	7027800
	ZLM1-B2011A10	7027802
	ZLM1-B1011A11	7027801
	ZLM1-B2011A11	7027803
	ZLM1-B1111A10	7027768
	ZLM1-B2111A10	7027770
	ZLM1-B1111A11	7027769
	ZLM1-B2111A11	7027771
	ZLM1-B1211A10	7027784
	ZLM1-B2211A10	7027786
	ZLM1-B1211A11	7027785
	ZLM1-B2211A11	7027787
-	ZLM1-B1021A10	7027792
	ZLM1-B2021A10	7027794
	ZLM1-B1021A11	7027793
	ZLM1-B2021A11	7027795
	ZLM1-B1121A10	7027760

Adjustment	Type	Part no.
	ZLM1-B2121A10	7027762
	ZLM1-B5121A10	7125166
	ZLM1-B1121A11	7027761
	ZLM1-B2121A11	7027763
	ZLM1-B1221A10	7027776
	ZLM1-B2221A10	7027778
	ZLM1-B1221A11	7027777
	ZLM1-B2221A11	7027779
	ZLM1-B1421A10	7125211
	ZLM1-B1421A11	7125212
	ZLM1-B1521A10	1041942
	ZLM1-B1521A11	1041943
	ZLM1-B1451A10	1052126
	ZLM1-B1421A10P01	7125160
	ZLM1-C1011A10	7027796
	ZLM1-C2011A10	7027798
	ZLM1-C1011A11	7027797
	ZLM1-C2011A11	7027799
	ZLM1-C1111A10	7027764
	ZLM1-C2111A10	7027766
-	ZLM1-C1111A11	7027765
	ZLM1-C2111A11	7027767
	ZLM1-C1211A10	7027780
	ZLM1-C2211A10	7027782
	ZLM1-C1211A11	7027781

Adjustment	Type	Part no.
	ZLM1-C2211A11	7027783
	ZLM1-C1021A10	7027788
	ZLM1-C2021A10	7027790
	ZLM1-C1021A11	7027789
	ZLM1-C2021A11	7027791
	ZLM1-C1121A10	7027756
	ZLM1-C2121A10	7027758
	ZLM1-C9121A10	7029642
	ZLM1C1121S01	7028829
	ZLM1C1121S03	7028978
	ZLM1C2121S02	7028856
	ZLM1C2121S04	7028979
	ZLM1-C1121A11	7027757
	ZLM1-C2121A11	7027759
	ZLM1-C1221A10	7027772
	ZLM1-C2221A10	7027774
	ZLM1-C1221A11	7027773
	ZLM1-C2221A11	7027775
	ZLM1-C1451A10	7029987
	ZLM1-C1451A11	7029988
None	ZLM1-B1612E42	7028842
	ZLM1-B1612E43	7028843
	ZLM1-B5612E41	7028428
	ZLM1-B1622E42	7028844
	ZLM1-B1622E43	7028845

- **Sub product family:** WTR
- **Sensing range max.:** 300 mm 900 mm
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Adjustment:** Potentiometer
- **Voltage type:** DC

Switching output	Switching mode	Connection type	Type	Part no.
NPN	Dark switching	Male connector	WTR2-N551S05	1019320
			WTR2-N551S06	1019583
	Light/dark switching	Male connector	WTR2-N551	1018877

Switching output	Switching mode	Connection type	Type	Part no.
PNP	Dark switching	Male connector	WTR1-P721	1015301
			WTR1-P721S09	1016291
			WTR1-P721S10	1017944
			WTR1-P421	1013260
			WTR1-P421S02	1015388
			WTR1-P821	1015918
			WTR1-P421S08	1016233
			WTR2-P521	1015074
			WTR2-P621	1015157
			WTR2-P621S16	1026608
			WTR2-P621S22	1040597
			WTR2-P621S22P01	1046823
			WTR2-P621S27	1042271
			WTR2-P521S09	1024302
			WTR2-P521S14	1025619
	Light switching	Male connector	WTR2-P511	1015158
	Light/dark switching	Male connector	WTR2-P551S08	1022927
PNP, NPN	Dark switching	Cable	WTR2-P021S24	1041629
	Light switching	Cable	WTR2-P511S20	1028700

- **Sub product family:** WTR
- **Sensing range max.:** 100 mm 900 mm, 3.9 in 35.4 in
- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Switching output:** PNP
- **Switching mode:** Dark switching
- **Connection type:** male connector
- **Adjustment:** Potentiometer
- **Voltage type:** DC

Type	Part no.
WTR1-P421A10	1025373
WTR1-P421A12	7028797
WTR1-P421B10	1025390
WTR1-P721A11	1025374
WTR1-P721B11	1025391
WTR1-P921A10	1025375
WTR1-P921B10	1025392
WTR1-P421A10P01	7123916
WTR1-P421A10P02	7125297
WTR1-P421A10P03	7125298
WTR1-P421B10P01	7125190
WTR1-P921A10P02	1045621

- **Sub product family:** WLR
- **Sensing range max.:** 0 m 9 m
- **Sensor principle:** Photoelectric retro-reflective sensor
- **Switching output:** PNP
- **Switching mode:** Light switching
- **Connection type:** cable with male connector
- **Adjustment:** none

Voltage type	Type	Part no.
AC	WLR2100-M6361	7027089
	WLR2100-M6362	7027090
DC	WLR2100-D1311	7027185
	WLR2100-D1312	7027753
	WLR2100-D1313	7028917
	WLR2100-D1321	7027754
	WLR2100-D1322	7027755
	WLR2100-D2311	7027808
	WLR2100-D2312	7027811
	WLR2100-D2321	7027809
	WLR2100-D2322	7027810

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