

WLR2100-D2312

ZoneControl

MULTITASK PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WLR2100-D2312	7027811

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

Illustration may differ



Detailed technical data

Features

Functional principle	Photoelectric retro-reflective sensor
Logical principle of operation	Single accumulation
Type of Release	Single release, block (slug) release
Dimensions (W x H x D)	45 mm x 73.7 mm x 48.6 mm
Sensing range max.	0 m 9 m
Sensing range	0 m 9 m ¹⁾
Type of light	Visible red light
Light source	LED ²⁾
Light spot size (distance)	Ø 205 mm (9 m)
Adjustment	None
Special applications	ZoneControl

¹⁾ Reflector PL80A.

Mechanics/electronics

Supply voltage U _B	18 V DC 30 V DC
Ripple	< 5 V _{pp} ¹⁾
Current consumption	40 mA ²⁾
Switching output	PNP
Switching mode	Light switching
Response time	1 ms

¹⁾ Of Vo

 $^{^{2)}}$ Average service life: 100,000 h at TU = +25 °C.

 $^{^{2)}}$ Without load and valve deenergized.

 $^{^{3)}}$ A = V_S connections reverse-polarity protected.

 $^{^{4)}}$ C = interference suppression.

 $^{^{5)}}$ D = outputs overcurrent and short-circuit protected.

Switching frequency	500 Hz	
Connection type	Cable with M12 male connector, 4-pin, 300 mm	
Connection type for daisy chain	Cable with female connector, M12, 4-pin 2 m	
Circuit protection	A ³⁾ C ⁴⁾ D ⁵⁾	
Protection class	II	
Housing material	Plastic, ABS	
Enclosure rating	IP67	
Shock and vibration resistance	According to IEC 68	
Ambient operating temperature	-25 °C +55 °C	
Ambient temperature, storage	-40 °C +70 °C	
Connection type solenoid valve	Cable, 2m, with 9.4 mm DIN valve connector	

 $^{^{1)}}$ Of V_{S} .

Pneumatic

Connection type solenoid valve Cable, 2m, with 9.4 mm DIN valve connection	tor
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Classifications

ECLASS 5.0	27270902
ECLASS 5.1.4	27270902
ECLASS 6.0	27270902
ECLASS 6.2	27270902
ECLASS 7.0	27270902
ECLASS 8.0	27270902
ECLASS 8.1	27270902
ECLASS 9.0	27270902
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ECLASS 12.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

²⁾ Without load and valve deenergized.

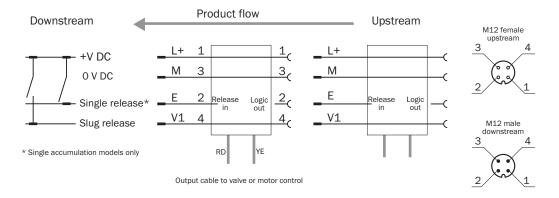
 $^{^{3)}}$ A = V_S connections reverse-polarity protected.

⁴⁾ C = interference suppression.

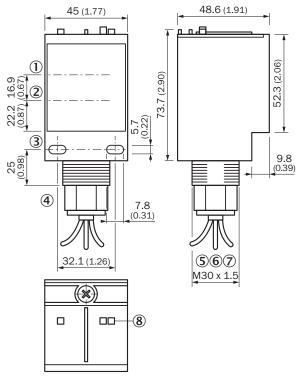
⁵⁾ D = outputs overcurrent and short-circuit protected.

Connection diagram

Cd-199



Dimensional drawing (Dimensions in mm (inch))



- ① Sender
- ② Receiver
- ③ Fastening threads
- 4 Threaded mounting hole
- Series connection, cable with female connector
- 6 Cable
- ⑦ Daisy chain connector, male
- Status indicator: LED

Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting brackets and plates				
0 0	Mounting bracket, steel, zinc coated, mounting hardware included	BEF-WK-WTR	2051786	
	Universal mounting bracket for reflectors, steel, zinc coated	BEF-WN-REFX	2064574	
	Mounting bracket, steel, zinc coated, mounting hardware included	BEF-WN-RT/IRT	2074621	
Plug connecto	ors and cables			
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 050VB3XLEAX	2096235	
	 Connection type head A: Male connector, M12, 4-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	STE-1204-G	6009932	
Reflectors				
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812	

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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."

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