



DATA SHEET

ZLM1-C1211A10

ZoneControl
Photoelectric sensors

SICK

Sensor Intelligence



Illustration may differ

PHOTOELECTRIC SENSORS

ZLM1-C1211A10

ORDERING INFORMATION

Type	part no.
ZLM1-C1211A10	7027780

Further device versions and accessories at www.sick.com/ZoneControl

DETAILED TECHNICAL DATA

FEATURES

Actuator	Pneumatic, valve on board
Max. number of sensors	Approx. 30 ¹⁾ Approx. 50 ²⁾
Logical principle of operation	Single accumulation
Type of Release	Single release, block (slug) release
Dimensions (W x H x D)	30 mm x 110 mm x 70 mm
Special applications	ZoneControl

¹⁾ When powerd from the end of the IR daisy chain.

²⁾ When powerd from center of the IR daisy chain.

MECHANICS/ELECTRONICS

Supply voltage U _B	≥ 21.6 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	60 mA ³⁾

¹⁾ Limit values.

²⁾ May not fall below or exceed U_V tolerances.

³⁾ Without load and valve deenergized.

⁴⁾ Do not bend below 0 °C.

⁵⁾ A = V_S connections reverse-polarity protected.

⁶⁾ C = interference suppression.

⁷⁾ D = outputs overcurrent and short-circuit protected.

⁸⁾ Reference voltage: 50 V DC.

⁹⁾ Other valve types available on request.

Switching output	PNP
Signal voltage PNP HIGH/LOW	Approx. $V_s - 0.5 \text{ V} / 0 \text{ V}$
Output current I_{max}	$\leq 100 \text{ mA}$
Response time	2.5 ms
Switching frequency	200 Hz
Connection type	Cable with female connector, M12, 4-pin, 500 mm ⁴⁾
Connection type for daisy chain	Cable with M12 male connector, 4-pin 2 m
Cable material	Plastic, PVC
Circuit protection	A ⁵⁾ C ⁶⁾ D ⁷⁾
Protection class	III ⁸⁾
Housing material	Plastic, ABS
Enclosure rating	IP40
Shock and vibration resistance	According to IEC 68
Ambient operating temperature	-10 °C ... +55 °C
Ambient temperature, storage	-40 °C ... +75 °C
Medium for valves	Compressed air or neutral gases filtered, non-lubricated or lubricated
Design solenoid valve	3/2-way valve ⁹⁾
Mode of operation solenoid valve	Air to Drive (NC)
Connection type solenoid valve	Compressed air 3/8 " diameter, control line 1/4 " diameter
Coil ratings	24 V DC 1 W
Air flow rate	40 NI/min
Ventilation capacity	40 NI/min
Operating pressure range	0 bar ... 4.5 bar
Response time solenoid valve	Partially open, 10 ms Open, 23 ms Close, 21 ms

¹⁾ Limit values.

²⁾ May not fall below or exceed U_v tolerances.

³⁾ Without load and valve deenergized.

⁴⁾ Do not bend below 0 °C.

⁵⁾ A = V_s connections reverse-polarity protected.

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⁹⁾ Other valve types available on request.

PNEUMATIC

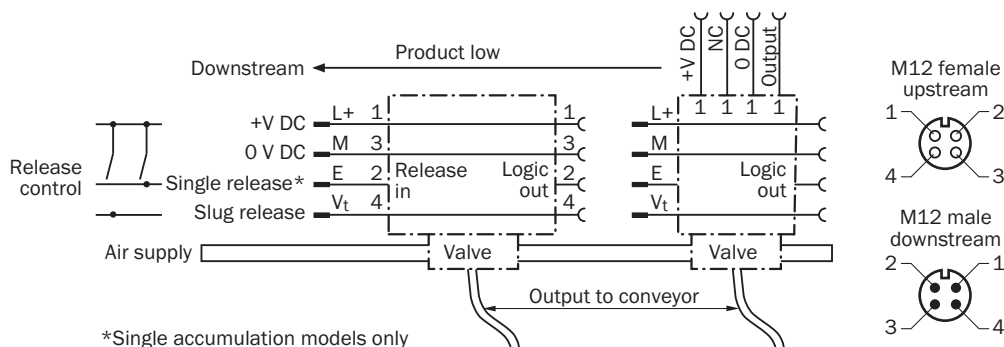
Coil ratings	24 V DC 1 W
Medium for valves	Compressed air or neutral gases filtered, non-lubricated or lubricated
Design solenoid valve	3/2-way valve ¹⁾
Connection type solenoid valve	Compressed air 3/8 " diameter, control line 1/4 " diameter
Air flow rate	40 NI/min
Ventilation capacity	40 NI/min
Operating pressure range	0 bar ... 4.5 bar
Response time solenoid valve	Partially open 10 ms Open 23 ms

¹⁾ Other valve types available on request.

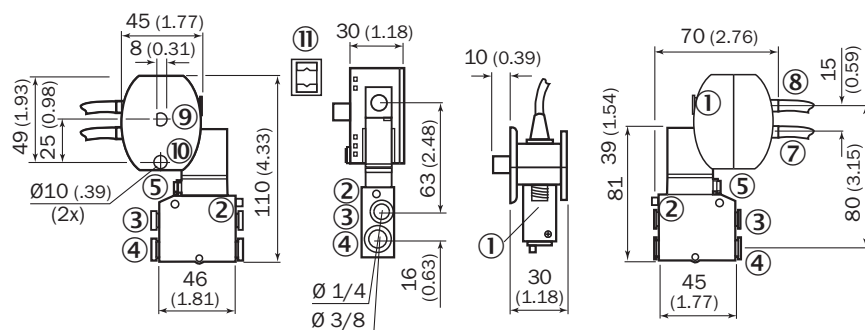
Close 21 ms

¹ Other valve types available on request.

CONNECTION DIAGRAM CD-263



DIMENSIONAL DRAWING ZLM-C



Dimensions in mm (inch)

- ① ZLM series connection, male connector
- ② Exhaust
- ③ Output port (x1)
- ④ Media connector (x2)
- ⑤ Manual override switch
- ⑥ Mounting slots (x2)
- ⑦ Daisy chain connector, male or female

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/7027780



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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