

ZLM1-B1612E42

ZoneControl

MULTITASK PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
ZLM1-B1612E42	7028842

Other models and accessories → 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)	31 mm x 105 mm x 74 mm
Adjustment	None
Special applications	ZoneControl

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

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

Mechanics/electronics

Supply voltage	≥ 21.6 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	60 mA ³⁾
Switching output	PNP
Signal voltage PNP HIGH/LOW	Approx. V _S - 0.5 V / 0 V
Output current I_{max.}	≤ 100 mA

¹⁾ Limit values, the device may connect only to protected extra low voltage.

²⁾ May not exceed or fall below 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⁾ Other valve types available on request.

⁹⁾ P - A.

¹⁰⁾ In combination with cylinders with small air volume we recommend tests.

Connection type	Cable with receptacle, M12, 4-pin, 1.1 m ⁴⁾
Connection type for daisy chain	Cable with M12 male connector, 4-pin 1.2 m
Cable material	PVC
Circuit protection	A ⁵⁾ C ⁶⁾ D ⁷⁾
Protection class	III
Housing material	Plastic, ABS
Enclosure rating	IP40
Ambient operating temperature	-10 °C ... +55 °C
Ambient storage temperature	-25 °C ... +75 °C
Medium for valves	Compressed air or neutral gases filtered, non-lubricated or lubricated
Design solenoid valve	3/2-way valve ⁸⁾
Mode of operation solenoid valve	Air to Drive (NC)
Connection type solenoid valve	Compressed air 2 x 8 mm diameter, output line 4 mm diameter
Coil ratings	24 V DC 1 W
Air flow rate	Approx. 20 NI/min ⁹⁾
Ventilation capacity	Approx. 130 NI/min
Operating pressure range	2 bar ... 8 bar ¹⁰⁾

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²⁾ May not exceed or fall below 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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⁸⁾ Other valve types available on request.

⁹⁾ P - A.

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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 2 x 8 mm diameter, output line 4 mm diameter
Air flow rate	Approx. 20 NI/min ²⁾
Ventilation capacity	Approx. 130 NI/min
Operating pressure range	2 bar ... 8 bar ³⁾

¹⁾ Other valve types available on request.

²⁾ P - A.

³⁾ In combination with cylinders with small air volume we recommend tests.

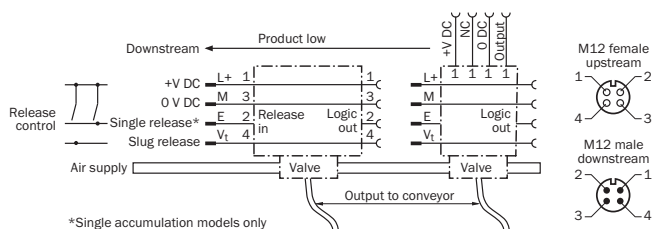
Classifications

ECl@ss 5.0	27270902
ECl@ss 5.1.4	27270902

ECl@ss 6.0	27270902
ECl@ss 6.2	27270902
ECl@ss 7.0	27270902
ECl@ss 8.0	27270902
ECl@ss 8.1	27270902
ECl@ss 9.0	27270902
ECl@ss 10.0	27270902
ECl@ss 11.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
UNSPSC 16.0901	39121528



Connection diagram

Cd-263



Recommended accessories

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

	Brief description	Type	Part no.
Mounting brackets and plates			
	Mounting bracket, steel, zinc coated, mounting hardware included	BEF-WK-WTR	2051786
		BEF-WN-RT/IRT	2074621

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:

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