



# 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](http://www.sick.com/ZoneControl)

## Detailed technical data

### Features

<b>Actuator</b>	Pneumatic, valve on board
<b>Max. number of sensors</b>	Approx. 30 <sup>1)</sup> Approx. 50 <sup>2)</sup>
<b>Logical principle of operation</b>	Single accumulation
<b>Type of Release</b>	Single release, block (slug) release
<b>Dimensions (W x H x D)</b>	31 mm x 105 mm x 74 mm
<b>Adjustment</b>	None
<b>Special applications</b>	ZoneControl

<sup>1)</sup> When power from the end of the IR daisy chain.

<sup>2)</sup> When power from center of the IR daisy chain.

### Mechanics/electronics

<b>Supply voltage <math>U_B</math></b>	$\geq 21.6 \text{ V DC}^{1)}$
<b>Ripple</b>	$< 5 \text{ V}_{pp}^{2)}$
<b>Current consumption</b>	$60 \text{ mA}^{3)}$
<b>Switching output</b>	PNP
<b>Signal voltage PNP HIGH/LOW</b>	Approx. $V_S - 0.5 \text{ V} / 0 \text{ V}$
<b>Output current <math>I_{max.}</math></b>	$\leq 100 \text{ mA}$

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

<sup>2)</sup> May not exceed or fall below  $U_V$  tolerances.

<sup>3)</sup> Without load and valve deenergized.

<sup>4)</sup> Do not bend below  $0^\circ \text{C}$ .

<sup>5)</sup>  $A = V_S$  connections reverse-polarity protected.

<sup>6)</sup> C = interference suppression.

<sup>7)</sup> D = outputs overcurrent and short-circuit protected.

<sup>8)</sup> Other valve types available on request.

<sup>9)</sup> P - A.

<sup>10)</sup> In combination with cylinders with small air volume we recommend tests.

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

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

<sup>2)</sup> May not exceed or fall below  $U_v$  tolerances.

<sup>3)</sup> Without load and valve deenergized.

<sup>4)</sup> Do not bend below 0 °C.

<sup>5)</sup> A =  $V_S$  connections reverse-polarity protected.

<sup>6)</sup> C = interference suppression.

<sup>7)</sup> D = outputs overcurrent and short-circuit protected.

<sup>8)</sup> Other valve types available on request.

<sup>9)</sup> P - A.

<sup>10)</sup> In combination with cylinders with small air volume we recommend tests.

## Pneumatic

<b>Coil ratings</b>	24 V DC 1 W
<b>Medium for valves</b>	Compressed air or neutral gases filtered, non-lubricated or lubricated
<b>Design solenoid valve</b>	3/2-way valve <sup>1)</sup>
<b>Connection type solenoid valve</b>	Compressed air 2 x 8 mm diameter, output line 4 mm diameter
<b>Air flow rate</b>	Approx. 20 NI/min <sup>2)</sup>
<b>Ventilation capacity</b>	Approx. 130 NI/min
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<sup>1)</sup> Other valve types available on request.

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## Classifications

<b>ECLASS 5.0</b>	27270902
<b>ECLASS 5.1.4</b>	27270902

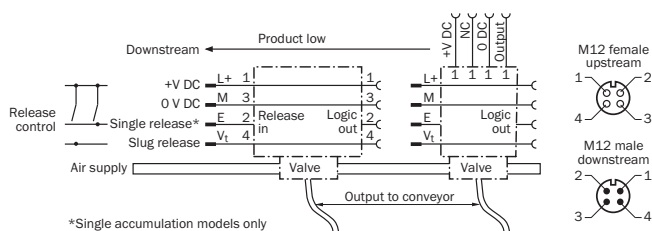
<b>ECLASS 6.0</b>	27270902
<b>ECLASS 6.2</b>	27270902
<b>ECLASS 7.0</b>	27270902
<b>ECLASS 8.0</b>	27270902
<b>ECLASS 8.1</b>	27270902
<b>ECLASS 9.0</b>	27270902
<b>ECLASS 10.0</b>	27270902
<b>ECLASS 11.0</b>	27270902
<b>ECLASS 12.0</b>	27270902
<b>ETIM 5.0</b>	EC002717
<b>ETIM 6.0</b>	EC002717
<b>ETIM 7.0</b>	EC002717
<b>ETIM 8.0</b>	EC002717
<b>UNSPSC 16.0901</b>	39121528

## Connection type




## Connection diagram

Cd-263



## Recommended accessories

Other models and accessories → [www.sick.com/ZoneControl](http://www.sick.com/ZoneControl)

	Brief description	Type	Part no.
<b>Mounting brackets and plates</b>			
	Mounting bracket, steel, zinc coated, mounting hardware included	BEF-WK-WTR	2051786

	Brief description	Type	Part no.
		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:

Contacts and other locations –[www.sick.com](http://www.sick.com)