Autonics 20250312

Ø 22/25 mm Pilot Lights



L2RR Series

PRODUCT MANUAL

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some Models may be discontinued without notice.

Features

- · High luminance LED
- · Available in various colors
- · Long-lasting durability

Safety Considerations

- Observe all 'Safety Considerations' for safe and proper operation to avoid hazards.
- ▲ symbol indicates caution due to special circumstances in which hazards may occur.

⚠ Warning Failure to follow instructions may result in serious injury or death.

- 01. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime / disaster prevention devices, etc.) Failure to follow this instruction may result in personal injury, economic loss or
- 02. Do not use or store the unit in the place where flammable / explosive / corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.
 - Failure to follow this instruction may result in explosion or fire
- 03. Install on a device panel to use.
 - Failure to follow this instruction may result in fire or electric shock.
- 04. Do not connect, repair, or inspect the unit while connected to a power
 - Failure to follow this instruction may result in fire or electric shock

05. Do not disassemble or modify the unit.Failure to follow this instruction may result in fire or electric shock.

▲ Caution Failure to follow instructions may result in injury or product damage.

01. This unit shall not be used outdoors.

Failure to follow this instruction may result in shortening the life cycle of the product or electric shock.

02. Use the unit within the rated specifications. Failure to follow this instruction may result in fire or product damage.

03. Do not use the load beyond rated switching capacity contact. Failure to follow this instruction may result in fire, relay broken, contact melt, insulation failure or contact failure

04. For wiring the product, do not pull the wiring excessively or apply excessive

Failure to follow this instruction may result in product damage or malfunction.

- 05. Use dry cloth to clean the unit, and do not use water or organic solvent. Failure to follow this instruction may result in fire or electric shock
- Keep the product away from metal chip, dust, and wire residue which from flowing into the unit.

Failure to follow this instruction may result in fire or product damage.



Specifications

Series	L2RR Series		
Installation	Extended		
Shock	300 m/s ² (\approx 30 G) in each X, Y, Z direction for 3 times		
Shock (malfunction)	100 m/s² (≈ 10 G) in each X, Y, Z direction for 3 times		
Vibration	$1.5\mathrm{mm}$ double amplitude at frequency of 10 to 55 Hz in each X, Y, Z direction for 2 hours		
Vibration (malfunction)	$1.5\mathrm{mm}$ double amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 10 minutes		
Ambient temperature	-15 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)		
Ambient humidity	35 to 85 %RH, storage : 35 to 85 %RH (no freezing or condensation)		
Protection structure	Light unit: IP52 (IEC standard)		
Certification	© H3 20 LPP (© A) H3 20 LPP (S A) H3 20 LPP (S A) H3 H3 A)		
Light unit weight	≈ 15.5 g		
Housing weight	≈7g		

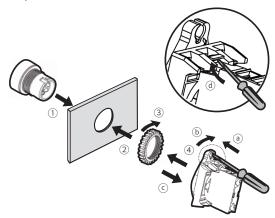
LED blocks	
Rated voltage	AC/DC voltage type: 12-24 VAC∼ 50/60 Hz, 12-24 VDC≕ AC voltage type: 110-220 VAC∼ 50/60 Hz
Current consumption	≤ 20 mA
Certification	C € EK ° AN °° EHI
Weight	AC/DC voltage type: ≈ 11 g, AC voltage type: ≈ 12 g

Sold Separately

- Let blocks (SA -L)
 Locking handle (SA -LH)
 Switch washer (SA-SW)

Assembly / Disassembly

- Assembly order: $\textcircled{1} \rightarrow \textcircled{2} \rightarrow \textcircled{3} \rightarrow \textcircled{4}$ Disassembly order: $\textcircled{a} \rightarrow \textcircled{b} \rightarrow \textcircled{c} \rightarrow \textcircled{d}$



Control Switches	Panel thickness	Tightening torque
Ø 22/25/30 mm	Max. 6 mm	≤ 1.47 N·m

Ordering Information

This is only for reference. For selecting the specified Model, follow the Autonics website.

Model is based on light unit+block combination. Light units or blocks are sold separately. In case of block, refer to control switch accessories.

L2	0	2	-	3	4	6	6
		Light unit				Bl	ock
Switch type				4 Col	lor		
RR: Rou	nd pilot lig	ht (extended	4)	R: Red	d		

B: Blue

Y: Yellow W: White

6 LED block

⊙ Block type

M: Modular type

D: 1 AC/DC voltage type

No mark: Singular type

L: 1 AC voltage type

2 Character marking (flat round /square) G: Green No mark: Lamp (light unit + singular type

block)

No mark: None (light unit + modular type block) U: None (light unit) $^{01)}$

Appearance

1: Extended dome

2: Extended horn

3: Extended flat round

4: Extended flat square

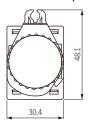
01) Only available for light unit. Select the block separately.

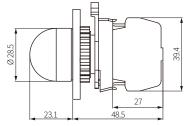
Model	Contact block		LED block		
	A contact	B contact	AC/DC voltage	AC voltage	
	L2RR-L1□D(M)			1	=
	L2RR-L1□L(M)			-	1
	L2RR-L2□D(M)			1	=
	L2RR-L2□L(M)			-	1
	L2RR-L3□D(M)] -	-	1	=
	L2RR-L3□L(M)			-	1
	L2RR-L4□D(M)			1	=
		1	I		

Dimensions

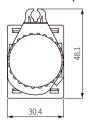
- Unit: mm, For the detailed drawings, follow the Autonics website.
- Panel thickness: ≤ 6 mm

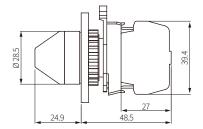
■ L2RR-L1 (extended dome head, singular type block)



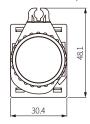


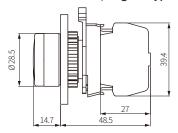
■ L2RR-L2 (extended horn head, singular type block)



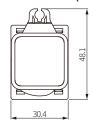


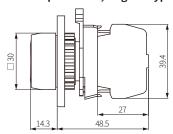
■ L2RR-L3 (extended flat round head, singular type block)





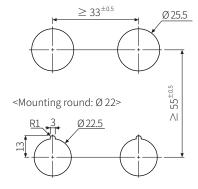
■ L2RR-L4 (extended flat square head, singular type block)



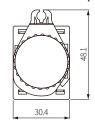


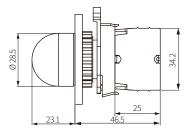
■ Panel cut-out

<Mounting round: Ø 25>

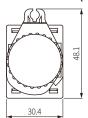


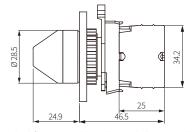
■ L2RR-L1 M (extended dome head, modular type block)



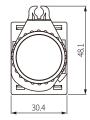


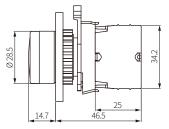
■ L2RR-L2 M (extended horn head, modular type block)





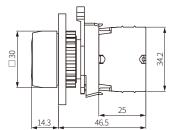
■ L2RR-L3 M (extended flat round head, modular type block)





■ L2RR-L4 M (extended flat square head, modular type block)





Autonics 20250310

Ø 22/25 mm, Ø 30 mm, □ 30 mm Control Switches Accessories

Contact Blocks (SA□-C□□)				
Model	Contact	Features	Applied switches	Appearance
SA-CAM	A contact (normally open)	Modular type Ring / Fork terminal available	Ø 22/25 mm, Ø 30 mm, □	Autonics SA-CAM 3
SA-CBM	B contact (normally closed)	Modular connection (up to 3 units)		Autonics SA-CBM 3
SA-CA	A contact (normally open)	Singular type (dust- resistant contact point) Fork terminal	30 mm Control switches	Autonics sa-ca a -
SA-CB	B contact (normally closed)	Fork terminal available Loose screw prevention		Autonics SA-CB , SQ , SWim C B000F-6-1 A000 2500/AC,6A 1100/AC,10A NO14 WARKERS AUTON

Power supply / current	110 VAC~ / 10 A, 250 VAC~ / 6 A	
Dielectric strength	Between the charging part and the case : 3,000 VAC~ 50/60 Hz for 1 minute	
Insulation resistance	\geq 1,000 M Ω (500 VDC== megger)	
Contact resistance	\leq 20 m Ω (initial)	
Electrical life cycle	≥ 100,000 operations (20 operations/min)	
Contact material	AgNi10	
Certification	CE ER BUS EN PE	
Weight	Modular type: ≈ 10 g, Singular type: ≈ 11 g	

■ Removal

Separate the unit using a flat-head (-) screwdriver.



LED Blocks (SA□-L□□)

Model	Power supply	Features	Applied switches	Appearance
SA-LD□ M	AC/DC voltage type 12-24 VAC~ 50/60 Hz 12-24 VDC==	Modular type Ring / Fork terminal available		Autonics SA-LDM 11-55-02 290 8 CE 12-24/DCARC, 20mA LDS 88887581 ATONS
SA-LA□ M	AC voltage type 110-220 VAC∼ 50/60 Hz	Modular connection (up to 3 units)	Ø 22/25 mm, Ø 30 mm, □	Autonics SA-LAM Autoni
SA-LD□	AC/DC voltage type 12-24 VAC~ 50/60 Hz 12-24 VDC==	Singular type (dust- resistant contact point)	30 mm Control switches, Pilot lights	Autorics SA-LD SI-Di-U - TABLE C DROSOT-5-1 12 - 24/DOVIG. 20mA NOSI WARRONIN JOSTON
SA-LA□	AC voltage type 110-220 VAC~ 50/60 Hz	Fork terminal available Loose screw prevention		Autonics SA-LA LIL-M-II #Miss CE BM0047-5-1 110 - 220 W.C., 10mA N000 WHITCHER-SHOOTS

• □ : Color (R: Red / B: Blue / G: Green / Y: Yellow / W: White)

Rated voltage	AC/DC voltage type: 12-24 VAC ~ 50/60 Hz, 12-24 VDC == AC voltage type: 110-220 VAC ~ 50/60 Hz
Current consumption ≤ 20 mA	
Certification (€ ﷺ :FII	
Weight AC/DC voltage type: ≈ 11 g, AC voltage type: ≈ 12 g	

■ Removal

Separate the unit using a flat-head (-) screwdriver. Same as contact removal method.

Locking Handle (SA□-LH)

• For locking switch nuts behind the panels.

Model	Applied switches	Appearance
SA-LH	Ø 22/25 mm, Ø 30 mm, □ 30 mm Control switches, Pilot lights ⁰¹⁾	OF OF

01) Except Ø 30 mm round pressure switches (extended).

Switch Washer (SA-SW□)

- \bullet The washer helps to improve switch tightening force.
- Unit: mm, For the detailed drawings, follow the Autonics web site.

Model	Applied switches	Dimensions	Appearance
SA-SW2	Ø 22/25 mm Control switches, Pilot lights	30 20.7/21.5 3 2.1	\wedge
SA-SW3	Ø 30 mm Control switches, Pilot lights	36 28.3 700 0	

Switch Enclosures (SA-□ B□)

Model	Certification	Shape	Applied switches	Appearance
SA-SB□	C€ Fi	Square	Ø 22/25 mm Control	
SA-TB□	C€ E	Triangle	switches	

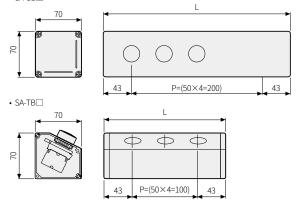
- □: Number of holes (1 to 5)
- You can order the other size and the number of holes.

■ Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics web site.

Model	Holes	L
SA-□ B1	1	86
SA-□ B2	2	136
SA-□ B3	3	186
SA-□ B4	4	236
SA-□ B5	5	286

• SA-SB□



Switch Waterproof Cap (SA-W□)

- IP65 protection structure with waterproof cap
- Unit: mm, For the detailed drawings, follow the Autonics web site.

Model	Applied switches	Dimensions	Appearance
SA-WP	Ø 22/25 mm Round non- illuminated / extended push button switches	© 031.1 031.1 14	
SA-WL	Ø 22/25 mm Round illuminated / extended push button switches	21 4	

Emergency Switch Nameplates (SA-N□)

- Unit: mm, For the detailed drawings, follow the Autonics web site.
- Standard color is yellow. Luminous nameplates are optional.

Model	Applied switches	Appearance
SA-NS	Ø 22/25 mm Emergency switches	• D60×d25
SA-NL	Ø 22/25 mm Emergency switches	- D80×d25

01) Except Ø 22/25 mm Emergency switch D60.

Emergency Switch Protective Shrouds (SA-EG \square)

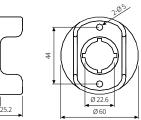
• Protective shrouds to prevent accidental/incorrect operation.

Model	Applied switches	Appearance
SA-EG1		
SA-EG2 / SA- EG3	Ø 22/25 mm Emergency switches	

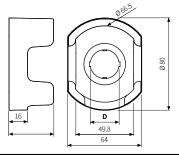
01) Except Ø 22/25 mm Emergency switch D60.

■ Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics web site.
- SA-EG1



• SA-EG2 / EG3



Model	D
SA-EG2	Ø 22.5
SA-EG3	Ø 25.5