20230824



L16RR Series CATALOGPRODUCT 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

- Compact, space-saving 16 mm installation diameter
- Short rear-length size of only 29.5 mm

Safety Considerations

Autonics

- Observe all 'Safety Considerations' for safe and proper operation to avoid hazards.
- Δ 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 fire.
- 02. Do not use 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.
- 64. Do not connect, repair, or inspect the unit while connected to a power source.
- 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.
- 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.
- **33.** 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.
- Insulation failure or contact failure.
 64. For wiring the product, do not pull the wiring excessively or apply excessive force.
- 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.
- 06. 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	L16RR Series
Installation	Extended
Shock	500 m/s ² (\approx 30 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	100 m/s ² (\approx 10 G) in each X, Y, Z direction for 3 times
Vibration	$1.5 \mbox{ mm}$ double amplitude at frequency of 10 to 55 Hz in each X, Y, Z direction for 2 hours
Vibration (malfunction)	1.5 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: IP65 (IEC standard)
Certification	
Light unit weight	≈ 11.5 g
Housing weight	\approx 1.4 g

01) IEC-60947-5-1 -

LED blocks					
Rated voltage	5/12/24	5/12/24 VDC== model			
Current consumption	Refer to th	Refer to the below Current consumption table.			
Certification	CE 5. S	C 든 분K , 93 55 ERI			
Weight	\approx 1.9 g	≈ 1.9 g			
Current consumption	Red	Blue	Green	Vellow	White

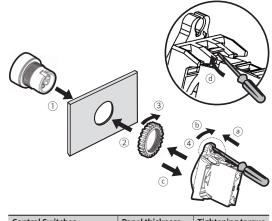
Current consumption	Red	Blue	Green	Yellow	White
SA16-L5 (5 VDC==)	6 to 9 mA	10 to 14 mA	5 to 7 mA	12 to 16 mA	10 to 14 mA
SA16-L12 (12 VDC==)	9 to 14 mA	10 to 15 mA	5 to 9 mA	10 to 16 mA	9 to 14 mA
SA16-L24 (24 VDC==)	15 to 20 mA	20 to 26 mA	16 to 22 mA	27 to 35 mA	23 to 30 mA

Sold Separately

LED blocks (SA -L)
Locking handle (SA -LH)

Assembly / Disassembly

- Assembly order: 1→2→3→4
 Disassembly order: a→b→c→d



Control Switches	Panel thickness	Tightening torque
Ø 16 mm	Max. 3.5 mm	\leq 0.49 N·m

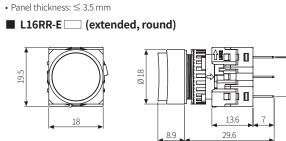
This is only for reference. For selecting the specified model, follow the Autonics website. Model is based on light unit+block combination. Light units or blocks are sold separately. In case of block, refer to control switch accessories.

L16 0 2	- 3	4 5
	Light unit	Block
Switch type	Color	
RR: Pilot light (extended)	R: Red	
Appearance	B: Blue	
No mark: Round	G: Green	
S: Square	Y: Yellow	
T: Rectangular	W: White	
③ Guard	G LED block	
E: None	5: 5 VDC===	
H: Half guard	12: 12 VDC===	
č	24: 24 VDC===	

Model	Contact block	LED block
Model	C contact	DC voltage
L16RR-E		1 (5 VDC==)
L16RR-E[]12	-	1 (12 VDC==)
L16RR-E24		1 (24 VDC===)
L16RRS-H 5		1 (5 VDC==)
L16RRS-H 12	-	1 (12 VDC==)
L16RRS-H 24		1 (24 VDC==)
L16RRT-H□5		1 (5 VDC==)
L16RRT-H 12	-	1 (12 VDC==)
L16RRT-H 24		1 (24 VDC==)

Dimensions

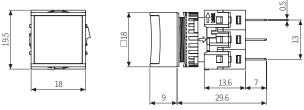
• Unit: mm, For the detailed drawings, follow the Autonics website.



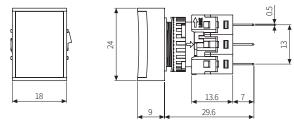
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■ L16RRS-H (square, half guard)



■ L16RRT-H 🔲 (rectangular, half guard)



Terminal pin



	A	В
Round	20	21
Square	20	21
Rectangular	25	21