

New WL-N Series Limit Switches

Easy to use and models focus on the most popular features to make stocking easier

Features & Benefits

- Gold clad contacts cover a wide range of loads from micro-load to general load.
- Reduced part numbers
- Easy wiring
- Improved visibility of indicators (for WL-□LE/LD /LR-N types)



Roller lever type (Standard, R=38 mm)

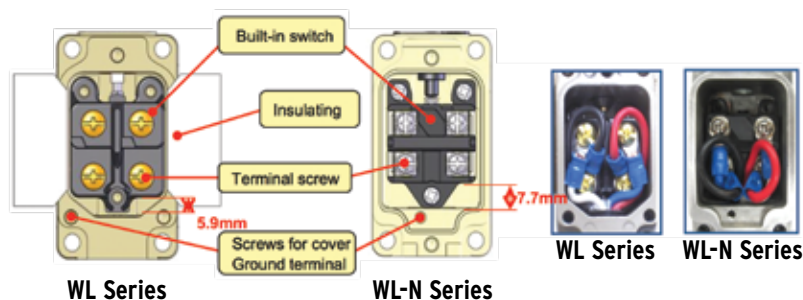
8 part numbers → 3 part numbers

Operating characteristics		Head type		Contact type
PT	TT	One-way operation	Mounting	
15	45	Yes	4-direction	For General load
15	45	Yes	4-direction	For Micro load
15	80	No	4-direction	For General load
15	80	No	4-direction	For Micro load
20	90	Yes	4-direction	For General load
20	90	Yes	4-direction	For Micro load
25	90	No	2-direction	For General load
25	90	No	2-direction	For Micro load

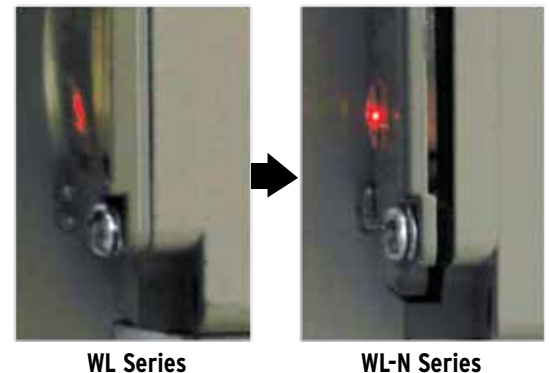


Type	Standard	Operating characteristics		Head type		Contact type
	Part No.	PT	TT	One-way operation	Mounting	
Overtravel 90° type	WLCA2-N	15	90	Yes	4-direction	For General and Micro loads
	WLCA2-2N-N	20				
	WLCA2-2-N	25				

Easy Wiring



Improved visibility of indicators (for WL-□LE/LD/LR-N series)



WL-N Series Nomenclature

Operating Characteristics/Lever Type

Code	Operating Characteristics	Lever
RCA2	PT 15±5°	Without Lever
CA2		Standard Lever
CL		Adjustable Rod Lever (25 mm to 140 mm)
CA12		Adjustable Lever
CA2-7		Roller R – 50 mm
CA2-8		Roller R – 63 mm
HAL4		Adjustable Rod Lever (350 to 380 mm)
HAL5		Spring Rod lever
RG2	PT 10°(+2/-1)	Without Lever
G2		Standard Lever
G12		Adjustable Lever
GL		Adjustable Rod Lever
RCA2-2	PT 25±5°	Without Lever
CA2-2		Standard Lever
CA12-2		Adjustable Lever
CL-2		Adjustable Rod Lever
RCA2-2N	PT 20°Max.	Without Lever
CA2-2N		Standard Lever
CA12-2N		Adjustable Lever
CL-2N		Adjustable Rod Lever

Environment-resistant

Code	Specifications
Blank	Standard type
P1	Weather-resistant type
TH	Heat-resistant type
TC	Low temperature type

Sensor I/O connector

Same connectors as the current WL are available

Specifications

Approved standards		UL508, CSA C22.2 No.14, EN60947-5-1, GB14048.5
Electrical Rating		A600, 1A at 125 VDC
Insulation Resistance		100 MΩ Minimum (at 500 VDC)
Contact Resistance		25 mΩ Maximum (at initial)
Dielectric strength	Between same polarity	1,000 VAC 50/60Hz 1 minute
	Between terminals and ground	2,200 VAC 50/60Hz 1 minute
	Between terminals and non-live metal parts	2,200 VAC 50/60Hz 1 minute
Permissible operating speed		1 mm to 1 m/second

Screw

Code	Specifications
Blank	Standard type (Steel)
E2	Stainless steel screw

Indicator

Code	Type of Indicator
Blank	Without Indicator
LE	Neon lamp
LD	LED
LR	LED (special wiring)

Lamp wiring (with cable type)

Code	Wiring
2	NC side wiring. Light when operating
3	NO side wiring. Light when not operating

Actuator

Code	Actuator mounting screw
Blank	Standard (Allen-head bolt)
A	Double nuts
F	Allen-head hexagon nut

Spatter-prevention

Code	Specifications
Blank	Without Spatter-prevention
S	Spatter-prevention type

Conduit size / Ground terminal

Code	Conduit size	Ground terminal
Blank	G1/2	Without ground terminal
G1	G1/2	With ground terminal
G	Pg13.5	With ground terminal
Y	M20	With ground terminal

Permissible operating frequency	Mechanical	120 operations/minute
	Electrical	30 operations/minute
Protective code		IP67
Minimum applicable load		1 mA at 5VDC, Resistive load, P-level
Ambient temperature		-10°C to +80°C (with no icing)
Ambient humidity		35 to 95%RH
Mechanical durability		15,000,000 operations minimum
Electrical durability		750,000 operations minimum (3A at 250VAC, Resistive load)