

High Capacity Two Circuit OEM Limit Switch Range

FEATURES

- Rugged Die cast housing.
- 20mm conduit entry.
- High mechanical strength.
- Oiltight, waterproof and dustproof construction IP67.
- Very low cost.
- Wide temperature operating band.

SPECIFICATIONS

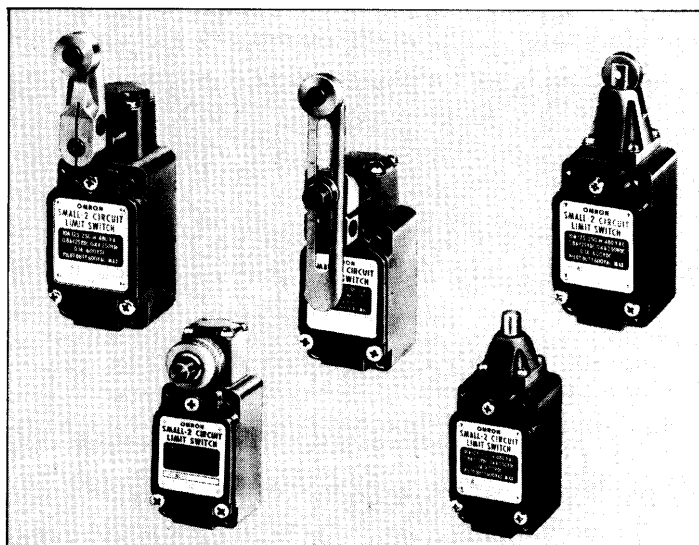
CONTACT RATINGS

Rated Voltage (V)	Non-inductive load (A)				Inductive load (A)			
	Resistive load		Lamp load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	10	10	3	1.5	10	5	2.5	
250 VAC	10	10	2	1	10	3	1.5	
480 VAC	10	10	1.5	0.8	3	1.5	0.8	
600 VAC	3	1	1	0.5	1.5	1	0.5	
8 VDC	10		6	3	10		6	
14 VDC	10		6	3	10		6	
30 VDC	6		4	3	6		4	
125 VDC	0.8		0.2	0.2	0.8		0.2	
250 VDC	0.4		0.1	0.1	0.4		0.1	

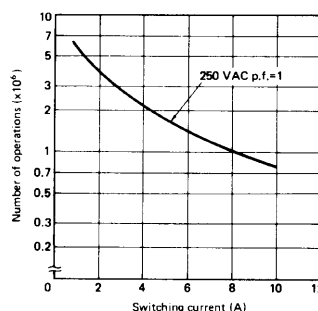
CHARACTERISTICS

Operating speed	1mm to 2m/sec (with Type WLCA2)	
Operating frequency	Mechanically: 120 operations/min. Electrically: 30 operations/min.	
Contact resistance	25mΩ max. (initial)	
Insulation resistance	100MΩ min. (at 500 VDC)	
Dielectric strength	1,000 VAC, 50/60Hz for 1 minute between non-continuous terminals; 2,200 VAC, 50/60Hz for 1 minute between each terminal and non-current-carrying metal part and between each terminal and ground	
Temperature rise	50 degrees max.	
Vibration	Malfunction durability: 10 to 55Hz; 1.5mm double amplitude	
Shock	Mechanical durability approx. 1,000m/sec ² (approx. 100G's) Malfunction durability: approx. 300m/sec ² (approx. 30G's)	
Ambient temperature	Operating: -5 to + 80°C	
Humidity	95% RH max.	
Degree of protection	NEMA IEC JIS	Type 6 IP-67 Immersion-proof
Service life	Mechanically: 15,000,000 operations min. Electrically: 800,000 ops. min. @ full load	
Weight	Approx. 275g (with Type WLCA2)	

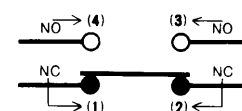
103-895



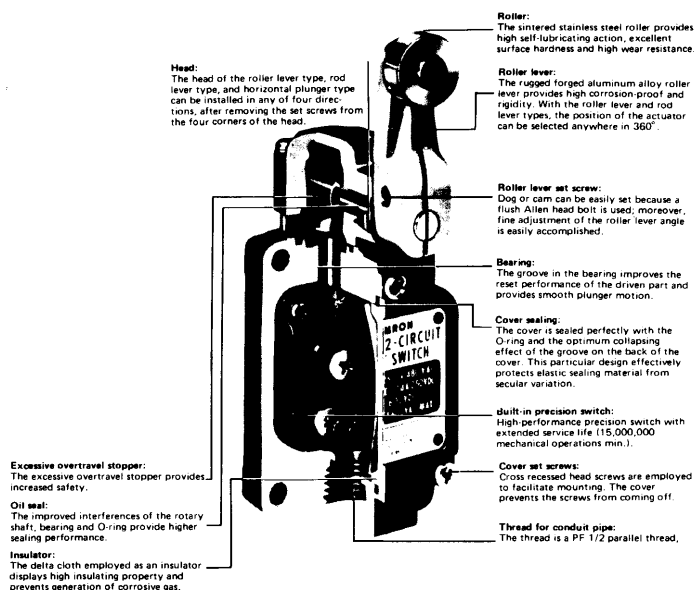
ELECTRICAL LIFE



CONTACT ARRANGEMENT



CONSTRUCTION



AVAILABLE TYPES

O.F.	Operating Force
R.F.	Release Force
P.T.	Pre Travel
O.T.	Over Travel
M.D.	Movement Differential
T.F.	Total Force
O.P.	Operating Position

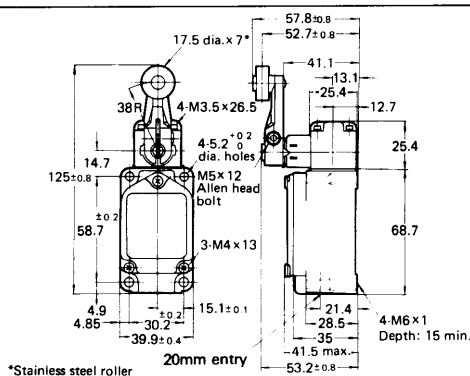
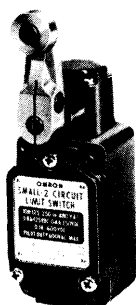
Type

Dimensions

Specifications

Spare Actuator

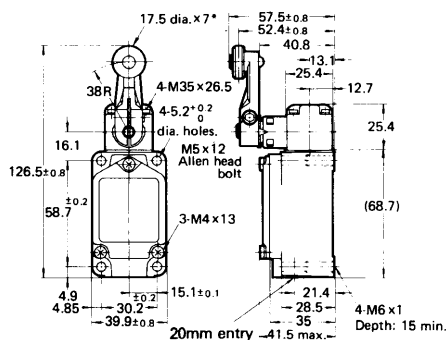
Roller lever type WLCA2G



O.F. (max.)	1,360g
R.F. (min.)	227g
P.T. (max.)	20°
O.T. (min.)	25°
M.D. (max.)	12°
T.F. (max.)	2,720g
T.T. (min.)	—

AL 1001

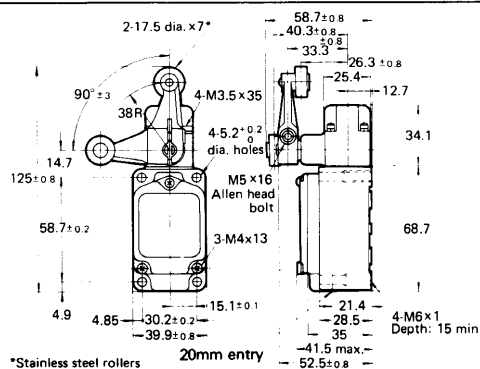
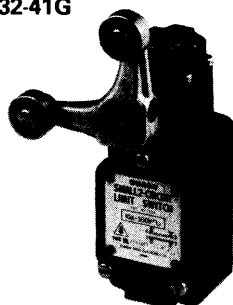
Roller lever type with extended overtravel WLCA2-2G



O.F. (max.)	900g
R.F. (min.)	50g
P.T. (max.)	30°
O.T. (min.)	60°
M.D. (max.)	16°

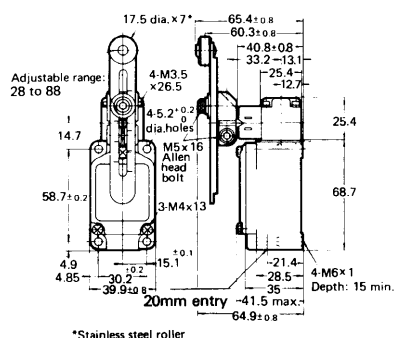
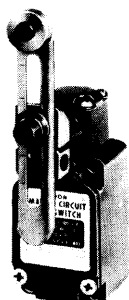
AL 1001

Fork lever lock type WLCA32-41G



O.F. (max.)	1,200g
R.F. (min.)	—
P.T. (max.)	55°
O.T. (min.)	35°
M.D. (max.)	—
T.F. (max.)	—
T.T. (min.)	90±10°

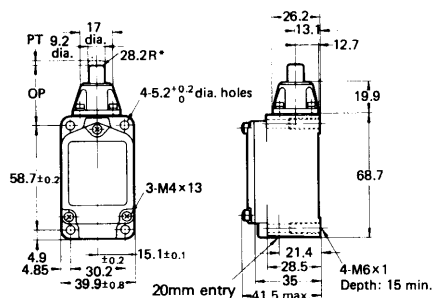
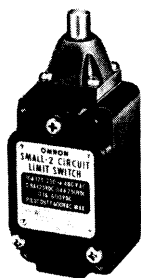
Adjustable roller lever type WLCA12G



O.F. (max.)	1,360g
R.F. (min.)	227g
P.T. (max.)	20°
O.T. (min.)	25°
M.D. (max.)	12°
T.F. (max.)	2,720g
T.T. (min.)	—

AL 1401

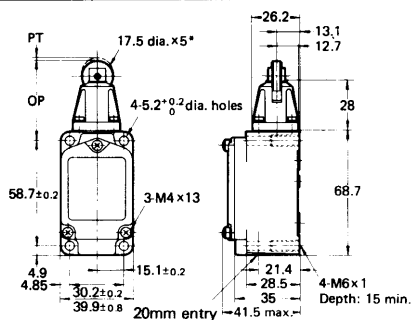
Type	Dimensions	Specifications	Spare Actuator
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Plunger type
WLDG

*Stainless steel plunger

O.F. (max.)	2,720g
R.F. (min.)	910g
P.T. (max.)	1.7mm
O.T. (min.)	6.4mm
M.D. (max.)	1mm
T.F. (max.)	—
O.P. (min.)	34±0.8mm

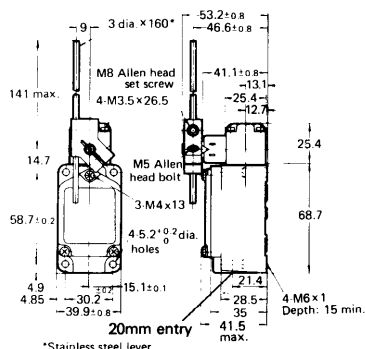
AL1601

Roller plunger type
WLD2G

*Stainless steel roller

O.F. (max.)	2,720g
R.F. (min.)	910g
P.T. (max.)	1.7mm
O.T. (min.)	5.6mm
M.D. (max.)	1mm
T.F. (max.)	—
O.P. (min.)	44±0.8mm

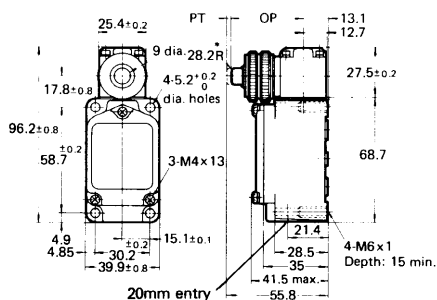
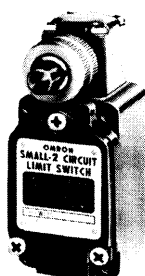
AL1611

Rod lever
WLCLG

*Stainless steel lever

O.F. (max.)	142g
R.F. (min.)	28g
P.T. (max.)	20°g
O.T. (min.)	25°
M.D. (max.)	12°
T.F. (max.)	200g
O.P.	

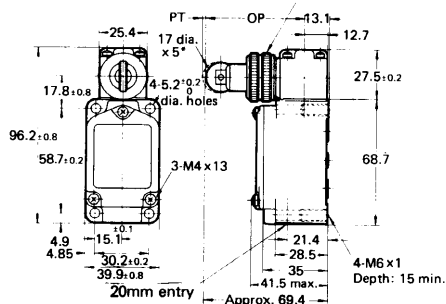
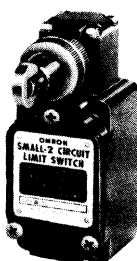
AL1501

Horizontal plunger type
WLSDG

*Stainless steel plunger

O.F. (max.)	4,082g
R.F. (min.)	907g
P.T. (max.)	2.8mm
O.T. (min.)	6.4mm
M.D. (max.)	1mm
T.F. (max.)	—
O.P.	40.6±0.8mm

AL1651

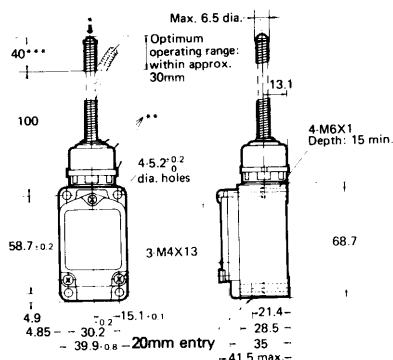
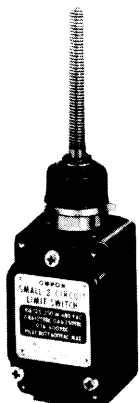
Horizontal roller plunger type
WLS2G

O.F. (max.)	4,082g
R.F. (min.)	907g
P.T. (max.)	2.8mm
O.T. (min.)	5.6mm
M.D. (max.)	1mm
O.P.	54.2±0.8mm

AL1661

Type	Dimensions	Specifications	Spare Actuator
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Coil spring type
WLNJG

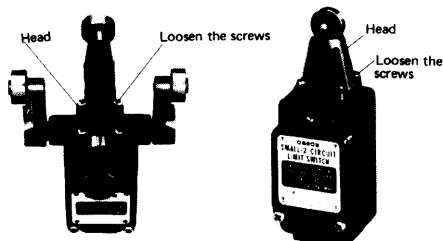


O.F. (max.)	150g
R.F. (min.)	—
P.T. (max.)	2.8mm

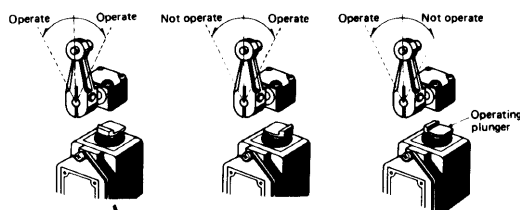
AL 1701

APPLICATION EXAMPLES

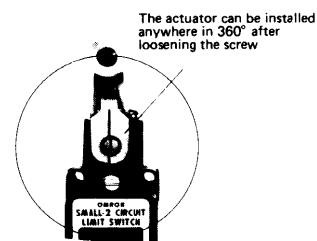
• Actuator Rotation



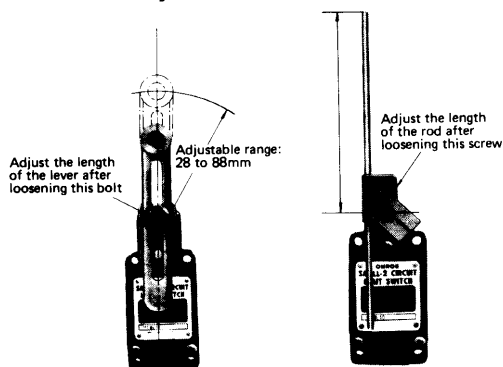
• Directional Operation



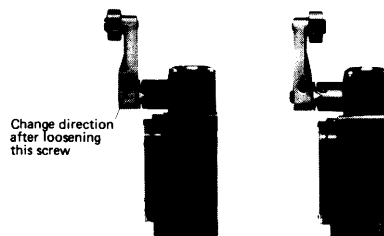
• Actuator Positioning



• Actuator Adjustment

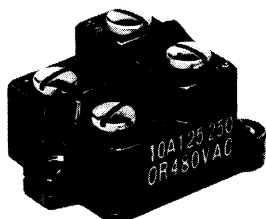


• Actuator Reversal



ACCESSORY

Interior Switch Block
WL-B3



IMO PRECISION CONTROLS

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