G

1.Function

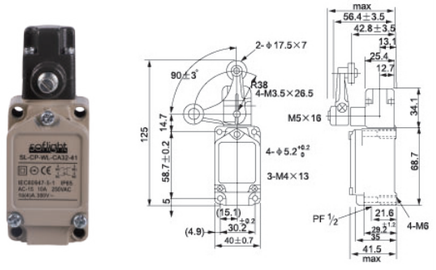
- Double-circuit type of limit switch, is widely used
- With strong aluminum cast outer shell
- High mechanical strength
- Structure preventing oil, water and pressure
- Indicating plate with setting position is installed in it, so it is easy to maintain
- Various of actuators is taken convenience for using
- Built-in contact stand has double-spring, so it has long mechanical life

2.Specifications

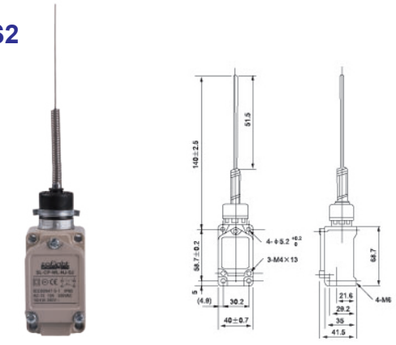
Model	WL-CA2-2 WL-CA12-2-Q	WL-CA32-41-43	WL-CL	WL-D	WL-D1/D2/D3	WL-NJ/NJ-30 /NJ-2/NJ-S2
Triggering	30°convex trigger	30°convex trigger	Any moving part	At the end	Any moving part	Any moving part
Contact operation	■ Contacts attract				□ Contacts separate	
Max triggering speed	1.3m/s	1.3m/s	1.3m/s	0.5m/s	0.5m/s	1.3m/s
Max restoring force	1360g	1200g	142g	2720g	2720g	120g
Min restoring force	227g		28g	910g	2910g8g	50g
Weight(kg)	0.330	0.340	0.300	0.251	0.251	0.286

3.Apperance and Dimension

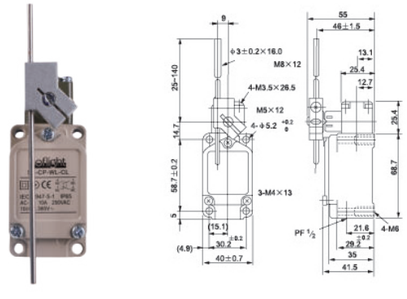
WL-CA32-41



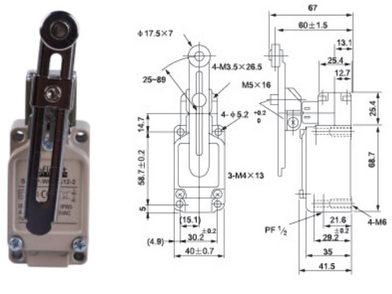
WL-NJ-S2



WL-CL



WL-CA12-2



G

4.Characteristics of Contact Module

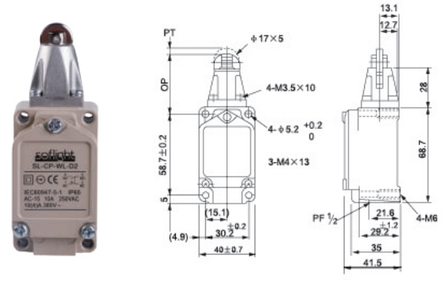
Rated operating characteristics	~AC-15: A300(Ue=240V, Ie=3A): 1 the=10A --DC-13: Q300(Ue=250V, Ie=0.27A): comply with IEC60947-5-1 A appendix table A, EN60947-1
Rated insulation voltage	AC2000V,50/60Hz, 1min Uimp 2.5kV Among homopolar Terminals: AC 1000V(600V),50/60Hz 1min Between charged metal part and earth wire: AC2000V(1500V),50/60Hz 1min Uimp 2.5kV Among terminals and non-charged metal part: AC2000V, 50/60Hz, 1min Uimp 2.5kV
Insulation sistance	100MΩ above(megohmmeter of 500VDC)
Operating equency	120 times/min
Electrical life	750,000 times
Contact resistance	Less than 25MΩ

5.Environmental Characteristics

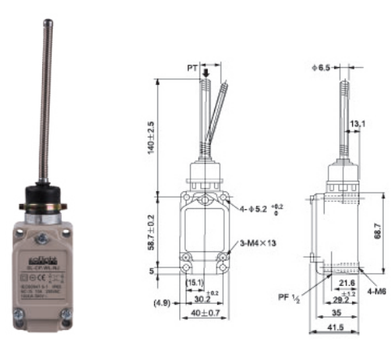
Normative reference	Product	IEC60947-5-1, EN60947-5-1 UL508, CSAC22-2N° 14
	Components	IEC60204-1, EN60204-1
Ambient temperature	Processing	-10~+80℃
	Storage	-40~+80℃
Vibration resistance	Comply with IEC60068-2-6	10-55Hz complex amplitude 1.5mm
Shock resistance	Comply with IEC60068-2-27	Maximum 300m/s² (30G Less than)
Degree of protection		IP67 NEMA: 3, 4, 13
Mechanical life		15,000,000 times

6.Apperance and Dimension

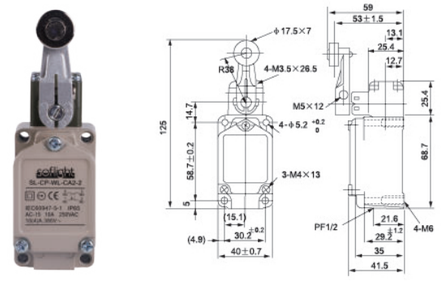
WL-D2



WL-NJ



WL-CA2-2



G

1.Function

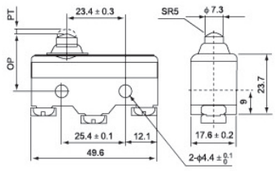
- Virous of actuators, action position is adjustable(such as QZ1701)
- High switch on and off capacity(15A)
- High accuracy
- Wide range of operation speed

2.Specifications

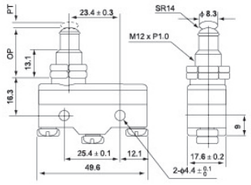
Model	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300	QZ1300
OF(Max.)	350g	300g	300g	350g	350g	350g	350g	350g	70g	160g	100g	160g	10g	160g
RF(Min.)	114g	50g	50g	114g	114g	114g	114g	114g	14g	28g	22g	42g	3g	42g
PT(Max.)	0.4mm	4mm	4mm	0.4mm	0.4mm	0.4mm	0.4mm	0.4mm	10mm	5mm	7.1mm	2.7mm	20mm	2.7mm
OT(Min.)	0.13mm	1.6mm	1.6mm	1.6mm	1.6mm	5.5mm	3.58mm	3.58mm	5.6mm	2mm	4mm	2.4mm	5.6mm	2.4mm
MD(Max.)	0.05mm	1.3mm	1.3mm	0.05mm	0.05mm	0.05mm	0.05mm	0.05mm	1.27mm	1mm	1.02mm	0.5mm	3mm	0.5mm
FP(Max.)		20.6mm	31.8mm						28.2mm	24.8mm	36.5mm	32.5mm		43.6mm
OP(mm)	15.9±0.4	17.4±0.8	28.6±0.8	28.2±0.5	21.5±0.5	21.8±0.8	33.4±1.2	33.4±1.2	19±0.8	19±0.4	30.2±0.8	30.2±0.4	19±0.8	43.1±0.8
Weight(kg)	0.033	0.035	0.039	0.034	0.038	0.051	0.058	0.058	0.037	0.036	0.041	0.034	0.036	0.040

3.Apperance and Dimension

Z-15GD-B3



Z-15GQ-B3



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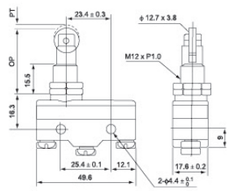

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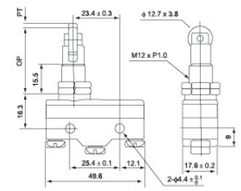

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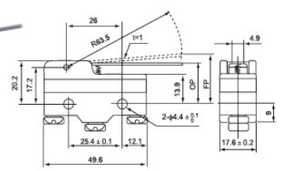

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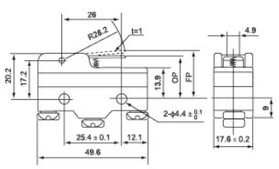
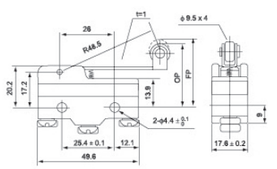
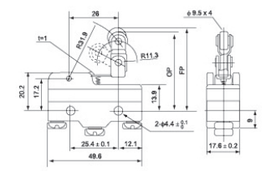


Z-15GW2S-B3



Z-15GW2277S-B3



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4.Characteristics of Contact Module

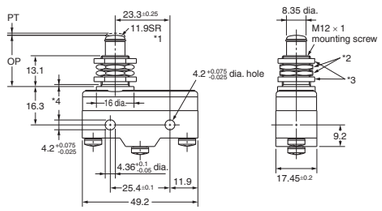
Rated operating characteristics	Inductive load: ~AC15,B300(Ue=240V,Ie=1.5A) --DC-13,R300(Ue=250V,Ie=0.1A) Resistive load: 250V, 5A
Rated insulation voltage	Ui=500V,class of pollution is 3m comply with IEC60947-1 Ui=300V,comply with UL508,CSA C22-2n° 14
Insulation sistance	100MΩ above(megohmmeter of 500VDC)
Operating equency	Mechanical:Max 250 times/min; electrical:max 20times/min
Electrical life	500,000 times
Contact resistance	Less than 15MΩ(initial value)

5.Environmental Characteristics

Normative reference	Product	IEC60947-5-1, EN60947-5-1
	Components	IEC60204-1, EN60204-1
Ambient temperature	Operation	-25~+80℃
	Storage	-40~+80℃
Vibration resistance	Comply with IEC60068-2-6	10-50Hz complex amplitude 1.5mm, misoperation with 1ms (in state of FP,TTP)
Shock resistance		Max 300m/s²,misoperation within 1ms(in state of FP,TTP)
Mechanical life		10,000,000 times
Operation speed	Comply with IEC60068-2-27	0.01 to 1m/sec(lock plug type)

6.Apperance and Dimension

GQ8-B3

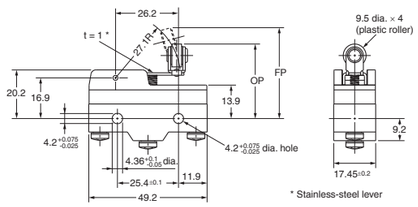


*1. Stainless-steel plunger
*2. Two hexagonal nuts (2tx14 width across flats)
*3. Two lock nuts (2tx15.6 width across flats)
*4. Incomplete screw part with a maximum length

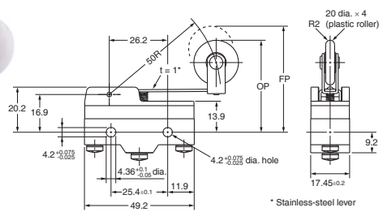
*The external dimensions of the actuator vary.

GW49S-B3

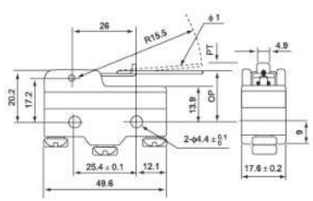
GW54S-B3



Z-15GW25-B3



AP-P

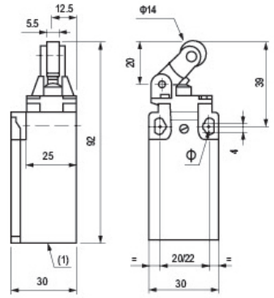


1.Characteristic/Application

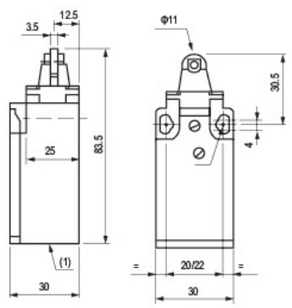
Item	QXCK-P model double insulation, according to cenelec en50047 oneline incoming mouth						
2-pole contact terminal Quick	Metal head direct-acting type	Stell-roller direct-acting type	Metal thermoplastic roller tumbler direct-acting type	Thermoplastic roller tumbler direct-acting type	Adjustable length and thermoplastic roller tumbler type	Cylindrical tumbler type glass fabric cup Diameter=3mm length=125mm	Multidirection type
Machine life(million tiems)	15	10	15	15	15	10	5
Motion speed(m/s)	0.5	0.3	1	1	1.5	1	1
Protection degree	IP65						
Rated work characters	ALTIPAK AC15; A 300(UE=240V, LE=3A) ALTIVAR DC13; Q 300(UE=250V, LE=0.27A)						
Boundary dimensions: width x depth x height	30x30x63						
Complete switch(2 poles 1-close+1-open, quick)	QXCK-P110	QXCK-P102	QXCK-P118	QXCK-P121 QXCK-P128	QXCK-P139 QXCK-P145	QXCK-P155	QXCK-P106

2.External appearance size

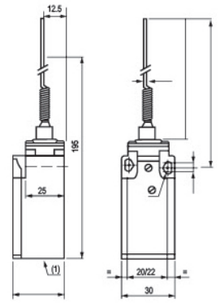
SL-CP-MP121



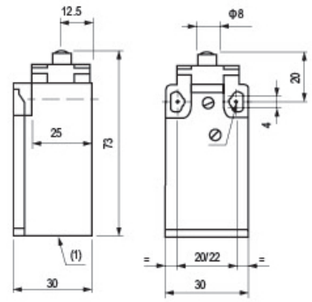
SL-CP-MP102



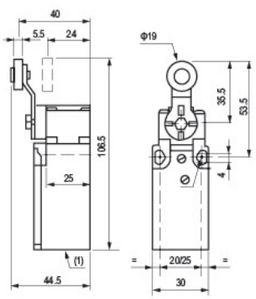
SL-CP-MP106



SL-CP-MP110



SL-CP-MP118

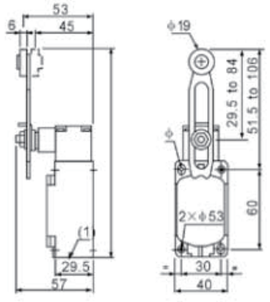


1.Characteristic/Application

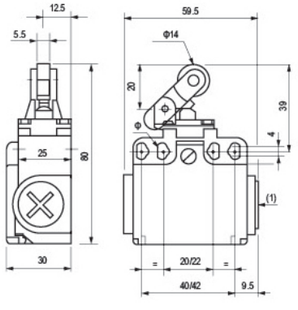
Item	QXCK-P model double insulation, according to cenelec en50047 oneline incoming mouth						
2-pole contact terminal Quick	Metal head direct-acting type	Stell-roller direct-acting type	Metal thermoplastic roller tumbler direct-acting type	Thermoplastic roller tumbler direct-acting type	Adjustable length and thermoplastic roller tumbler type	Cylindrical tumbler type glass fabric cup Diameter=3mm length=125mm	Multidirection type
Machine life(million tiems)	15	10	15	10	15	15	10
Motion speed(m/s)	0.5	0.3	1	1.5	1.5	0.5	1.5
Protection degree	IP65						
Rated work characters	ALTIPAK AC15; A 300(UE=240V, LE=3A) ALTIVAR DC13; Q 300(UE=250V, LE=0.27A)						
Boundary dimensions: width x depth x height	58x30x50						
Complete switch(2 poles 1-close+1-open, quick)	QXCK-T110	QXCK-T102	QXCK-T118	QXCK-T121 QXCK-T128	QXCK-T139 QXCK-T145	QXCK-T155	QXCK-T106

2.External appearance size

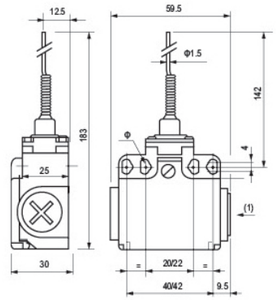
SL-CP-MS141



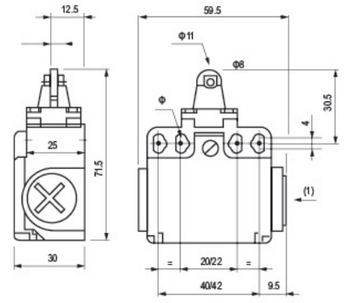
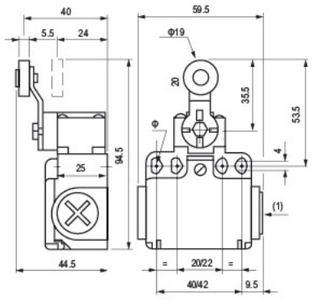
SL-CP-HCK-T121



SL-CP-HCK-T106



SL-CP-HCK-T102



SL-CP-HCK-T118