

COMPACT LIMIT SWITCHES (Metal Body, IP67 Water-Proof) SN31 SERIES (20mm) and SN32 SERIES (25mm)

Selection Guide:

SN3	1	12	-	SP	-	A	2
	Housing			Head Style			2 meter cable
20mm mounting	1			SP Snap Action		A Cable side exit	
25mm mounting	2			SL Slow Action		B Cable bottom exit	
						C M12 connector side exit 4 pin	
						D M12 connector bottom exit 4 pin	
						E M12 connector side exit 5 pin	
						F M12 connector bottom exit 5 pin	

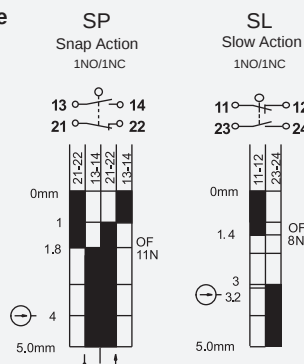
Specification

Operating Speed	0.05mm-2m/s
Operating Frequency	Mechanical: 120ops/min Electrical: 30 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial value)
Rated Voltage	300V AC (EN60947-5-1)
Rated Thermal Current	10A
Electrical Rating	AC15 A300 DC13 Q300
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1 x10 ⁷ (operations) Electrically 5 x10 ⁵ (operations)
Operating Temperature	-25~+85°C without formation of ice
Humidity	< 95%
Cable	5 core, 0.75mm ²
Degree of Protection	IP67

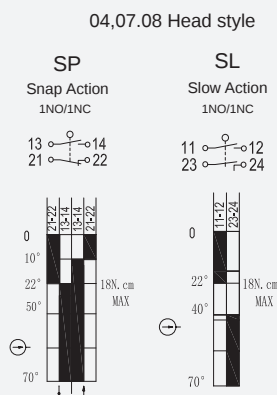
Electrical Ratings

IEC 60947-5-1 / EN 90947-5-1						
Designation & Utilization Category	Rated operational current Ie (A) at rated operational voltage Ue					VA rating Make Break
AC15 A600	120V	240V	380V	480V	600V	7200 720
	6A	3A	-	-	-	
DC13 Q300	125VDC	250VDC				69 69
	0.55	0.27				

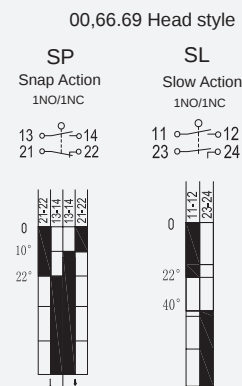
Plunger Style



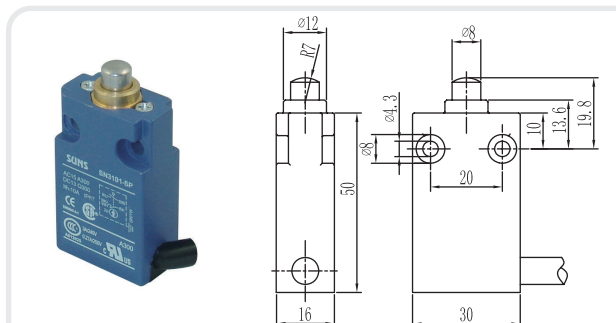
Rotary Style



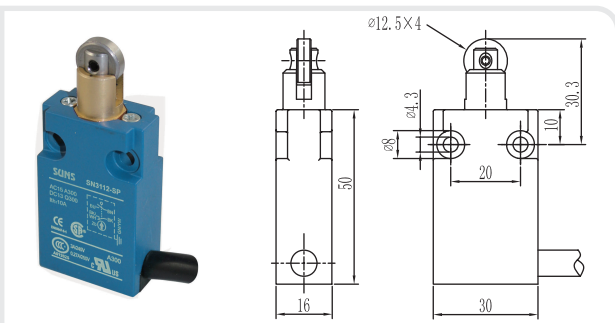
Spring Coil Style



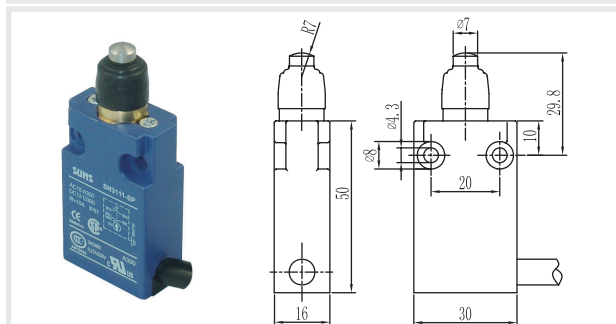
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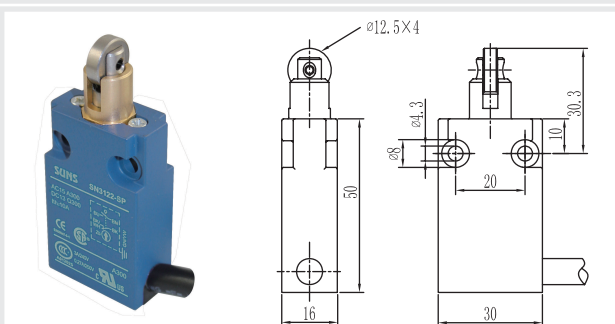
Order Code	Contact block			
SN3101-SP	SP	→	snap action	1NO+1NC
SN3101-SL	SL	→	slow action	1NO+1NC BBM



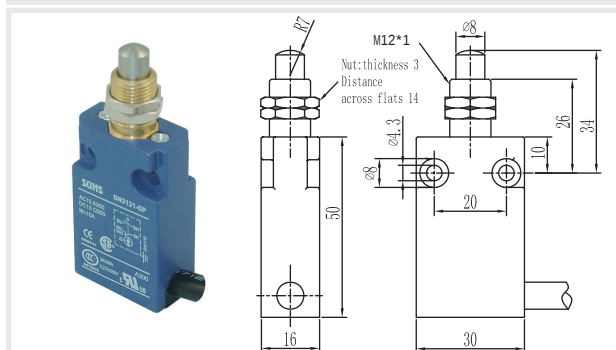
Order Code	Contact block			
SN3112-SP	SP	→	snap action	1NO+1NC
SN3112-SL	SL	→	slow action	1NO+1NC BBM



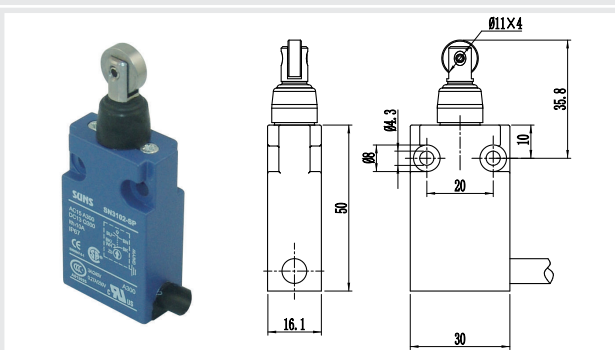
Order Code	Contact block			
SN3111-SP	SP	→	snap action	1NO+1NC
SN3111-SL	SL	→	slow action	1NO+1NC BBM



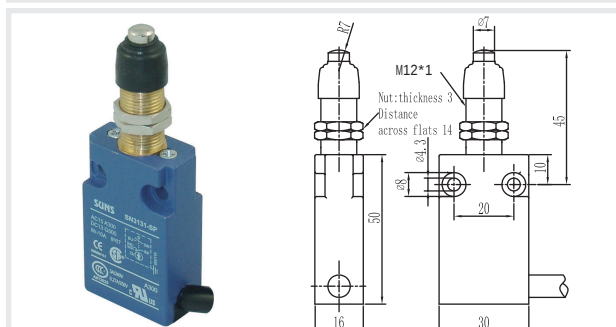
Order Code	Contact block			
SN3122-SP	SP	→	snap action	1NO+1NC
SN3122-SL	SL	→	slow action	1NO+1NC BBM



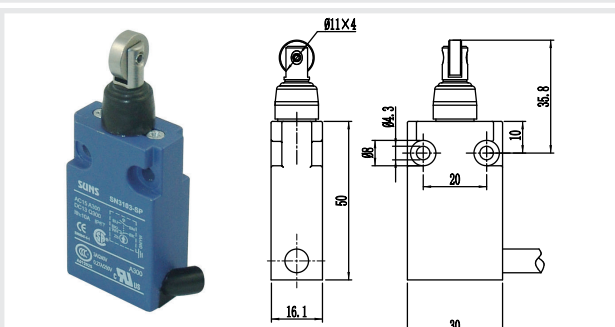
Order Code	Contact block			
SN3121-SP	SP	→	snap action	1NO+1NC
SN3121-SL	SL	→	slow action	1NO+1NC BBM



Order Code	Contact block			
SN3102-SP	SP	→	snap action	1NO+1NC
SN3102-SL	SL	→	slow action	1NO+1NC BBM



Order Code	Contact block			
SN3131-SP	SP	→	snap action	1NO+1NC
SN3131-SL	SL	→	slow action	1NO+1NC BBM



Order Code	Contact block			
SN3103-SP	SP	→	snap action	1NO+1NC
SN3103-SL	SL	→	slow action	1NO+1NC BBM

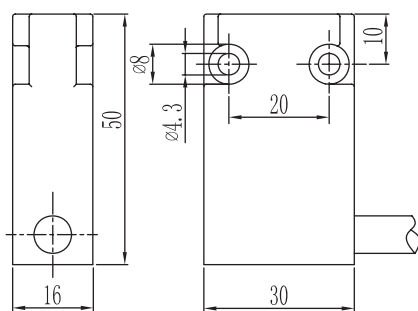
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	Order Code SN3132-SP SP snap action 1NO+1NC SN3132-SL SL slow action 1NO+1NC BBM
	Order Code SN3142-SP SP snap action 1NO+1NC SN3142-SL SL slow action 1NO+1NC BBM
	Order Code SN3104-SP SP snap action 1NO+1NC SN3104-SL SL slow action 1NO+1NC BBM
	Order Code SN3104-SP-S SP snap action 1NO+1NC SN3104-SL-S SL slow action 1NO+1NC BBM
	Order Code SN3107-SP SP snap action 1NO+1NC SN3107-SL SL slow action 1NO+1NC BBM
	Order Code SN3108-SP SP snap action 1NO+1NC SN3108-SL SL slow action 1NO+1NC BBM
	Order Code SN3111-SP G SP snap action 1NO+1NC SN3111-SL G SL slow action 1NO+1NC BBM
	Order Code SN3166-SP SP snap action 1NO+1NC SN3166-SL SL slow action 1NO+1NC BBM

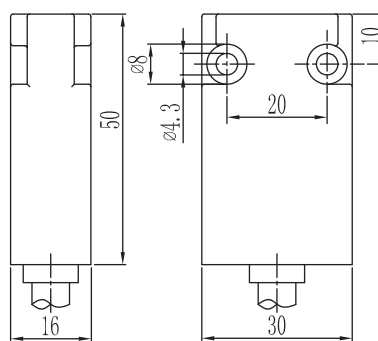
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Basic Body dimension:

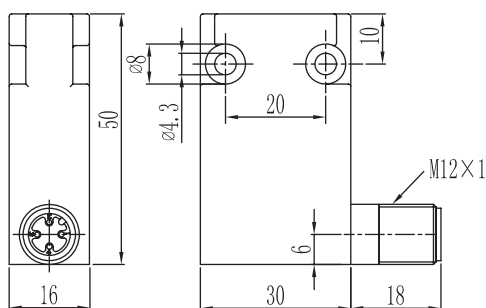
Suffix: -A (cable side exit)



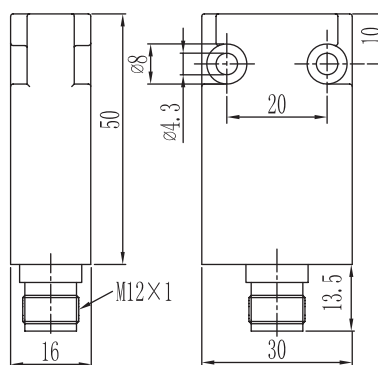
Suffix: -B (cable bottom exit)



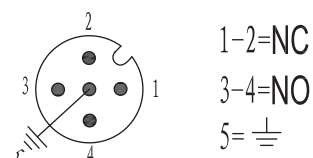
Suffix: -C or -C3 (M12 quick connector side exit 4 pin)
Suffix: -E (M12 quick connector side exit 5 pin)



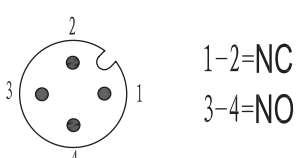
Suffix: -D or -D3 (M12 Quick Connector bottom exit 4 pin)
Suffix: -F (M12 Quick Connector bottom exit 5 pin)



-E -F: 5 pin M12



-C -D: 4 pin M12



-C3 -D3: 4 pin M12

