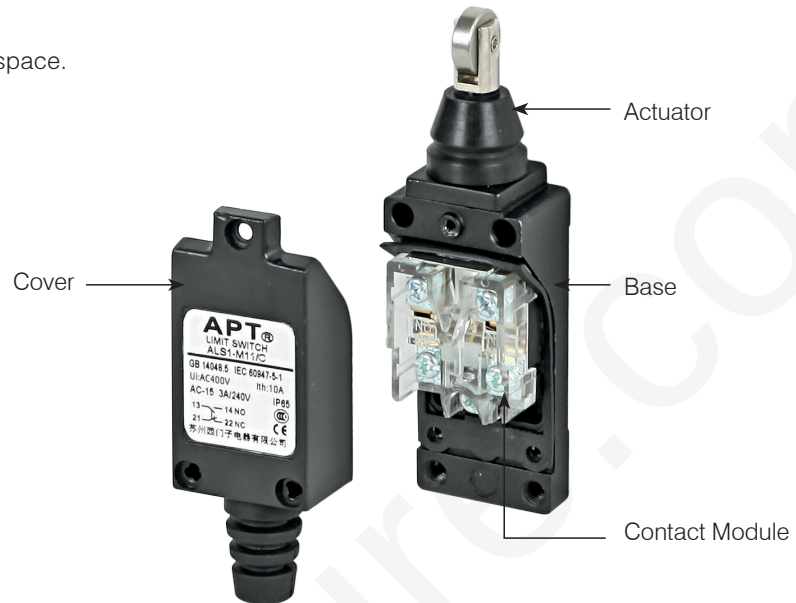


ALS Limit Switch Plastic Siemens APT

ALS Limit Switch introduction

ALS1-M introduction

- Protection class: IP65.
- Compact structure with save installation space.
- RoHS material



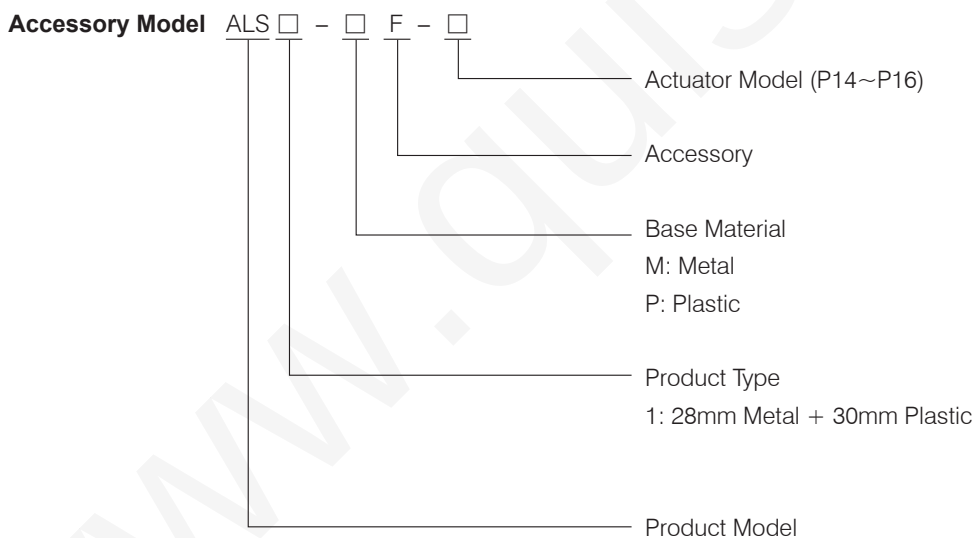
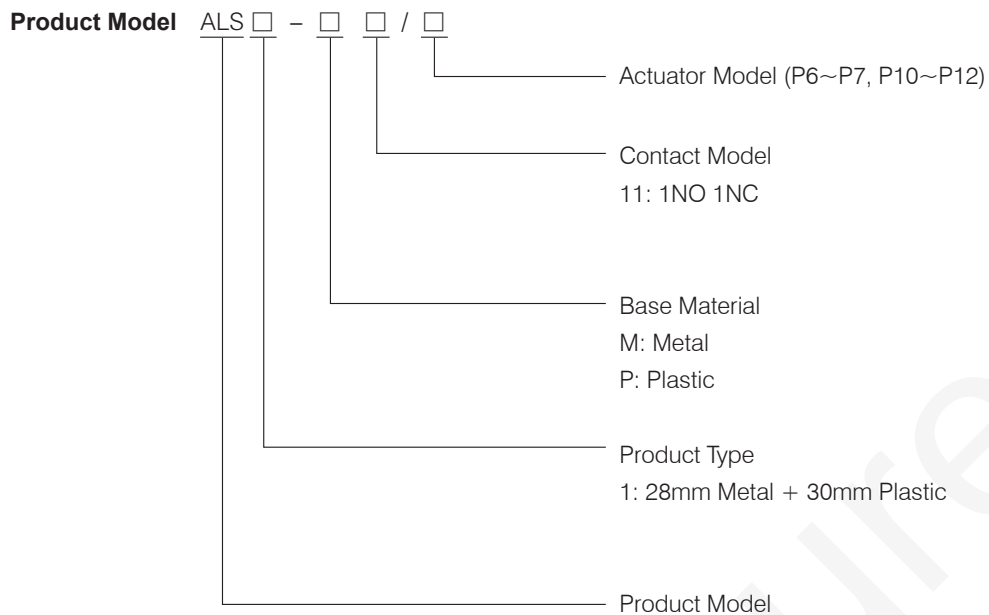
ALS1-P introduction

- Protection class : IP67.
- EN50047 Standard
- Easy wiring
- Modularized design with easy installation
- RoHS material



ALS Limit Switch

Model Description



Technical Data of ALS1-P

Standards:	IEC60947-5-1 GB14048.5 EN50047
Rated Insulation Voltage U_i :	AC 400V
Rated Impulse Withstand Voltage U_{imp} :	AC 1890V 50Hz. 1min
Conventional Thermal Current I_{th} :	10A
Product Certification:	CCC, CE, RoHS
Mechanical Endurance:	About 10 million times
Electrical Endurance:	0.5 million times/AC-15 at 240V/3A
Ambient Temperature:	-25℃ ~70℃
Humidity:	< 95%RH
Protection Class:	IP67
Operating Frequency:	6,000 times/hour (Mechanical Endurance)
Shock Amplitude:	$\leq 10g$
Impact Amplitude:	10~55Hz 1.5mm
Contact Resistance:	< 25m Ω
Contact Material:	AgNi10/Cu
Safety Circuits:	Yes
Wire Specifications:	2 × (0.5...0.75)mm ² 1 × (0.5...1.5)mm ²

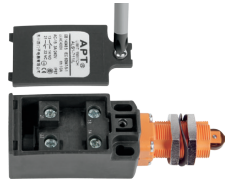
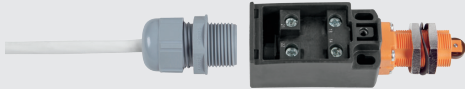
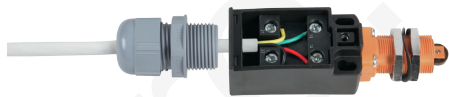
Rated Load

Rated Insulation Voltage U_i	AC400V			
Conventional Thermal Current I_{th}	10A			
AC-15	24V/6A	120V/6A	240V/3A	380V/0.5A
DC-13	24V/3A	125V/0.55A	250V/0.27A	/

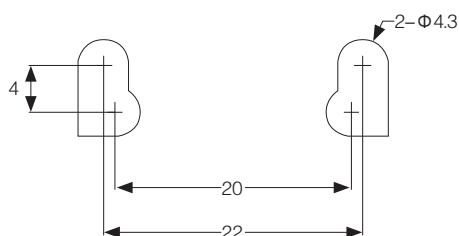
Remarks: “/” Unsuitable

ALS Limit Switch

How to install?

1. Unscrew the screw, take off the cover.	
2. Install the wire through cable gland.	
3. Wire directly.	
4. Tighten the screws of the cover.	
5. Tighten the cable gland.	

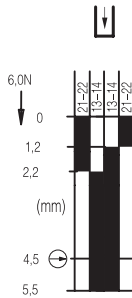
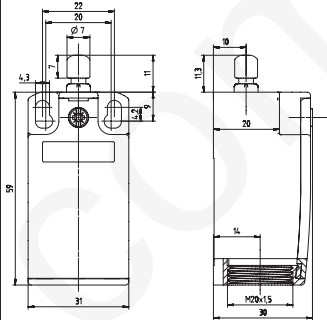
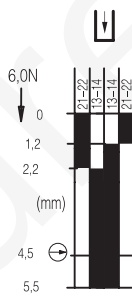
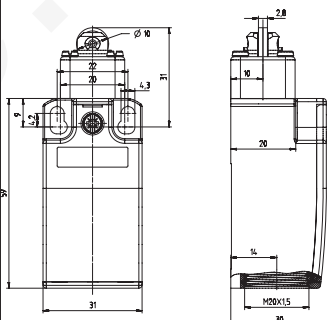
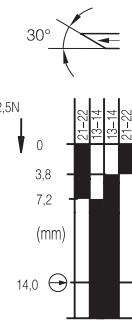
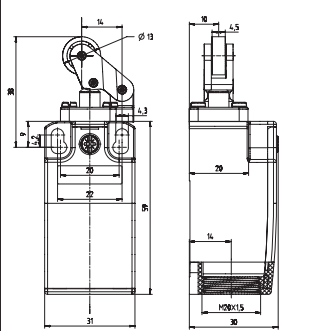
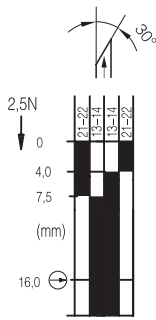
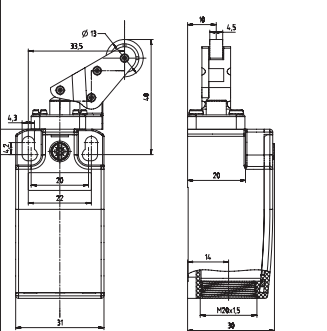
Mounting holes Dimension



Note:

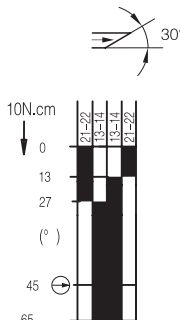
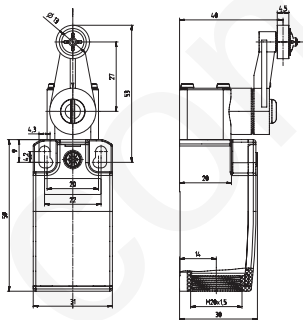
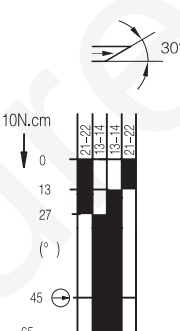
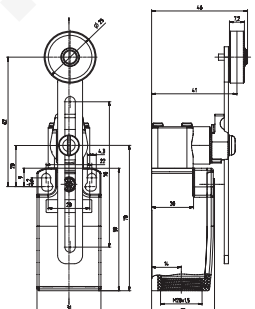
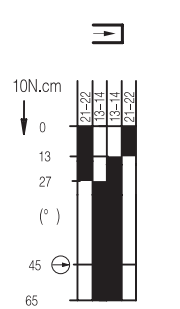
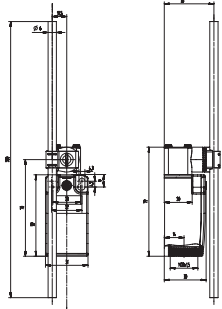
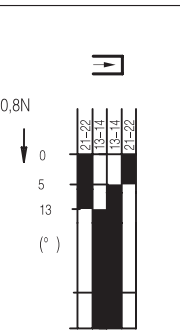
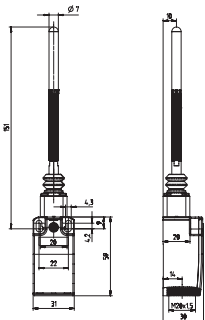
- Tightening torque $\leq 0.7\text{Nm}$ of contact model.
- Tightening torque $\leq 1\text{Nm}$ of cover.
- Pay attention to cover installed.

Model List

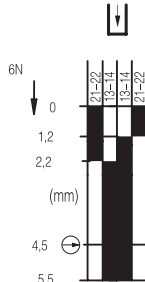
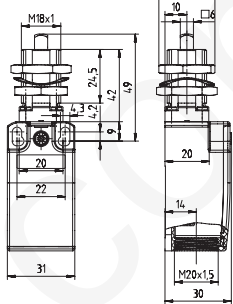
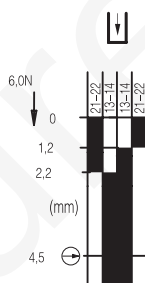
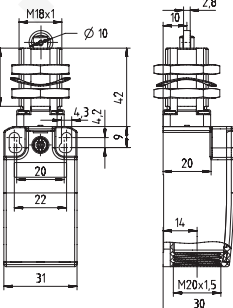
Name	Type	Contact	Model	Actuation And Travel	Dimensions
Rounded Plunger		Snap-action 13 — 14NO 21 — 22NC	ALS1-P11/A1		
Roller Plunger		Snap-action 13 — 14NO 21 — 22NC	ALS1-P11/B1		
Roller Lever		Snap-action 13 — 14NO 21 — 22NC	ALS1-P11/D1		
Angular Roller Lever		Snap-action 13 — 14NO 21 — 22NC	ALS1-P11/E1		

ALS Limit Switch

Model List

Name	Type	Contact	Model	Actuation And Travel	Dimensions
Twist Lever		Snap-action 13 — 14NO 21 — 22NC	ALS1-P11/F1		
Adjustable Length Twist Lever		Snap-action 13 — 14NO 21 — 22NC	ALS1-P11/G1		
Rod Actuator		Snap-action 13 — 14NO 21 — 22NC	ALS1-P11/H1		
Spring Rod		Snap-action 13 — 14NO 21 — 22NC	ALS1-P11/S1		

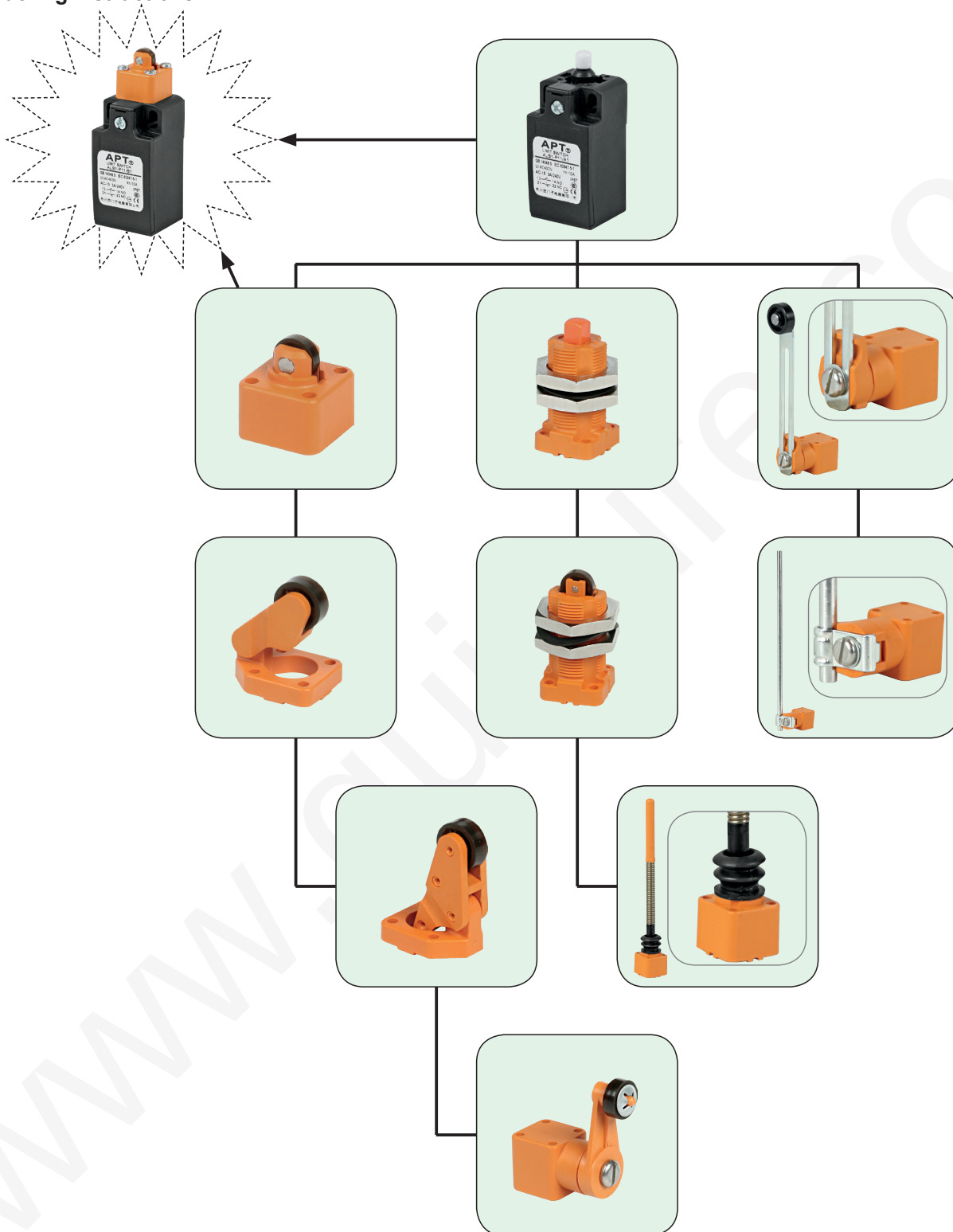
Model List

Name	Type	Contact	Model	Actuation And Travel	Dimensions
Rounded plunger	 (with M18x1 thread)	Snap-action 13-14NO 21-22NC	ALS1-P11/K		
Roller Plunger	 (with M18x1 thread)	Snap-action 13-14NO 21-22NC	ALS1-P11/L		

Notes: ★ All finished products and actuators can be order.
 ★ All actuators can be replaced, referring to the explanation on page 13.

ALS Limit Switch

Ordering Instructions



Remarks: Product Model ALS1-P11/B1

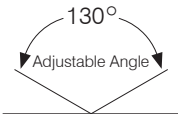
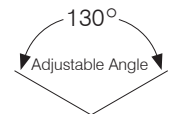
└─> ALS1-P11/A1 + ALS1-PF-B1

Actuator

Name	Type	Model	Remarks
Roller Plunger		ALS1-PF-B1	Plastic Roller
Roller Plunger		ALS1-PF-B2	Metal Roller
Roller Lever		ALS1-PF-D1	Plastic Roller
Roller Lever		ALS1-PF-D2	Metal Roller
Angular Roller Lever		ALS1-PF-E1	Plastic Roller

ALS Series Limit Switch

Actuator

Name	Type	Model	Remarks
Angular Roller Lever		ALS1-PF-E2	Metal Roller
Twist Lever		ALS1-PF-F1	Plastic Roller 
Adjustable Length Twist Lever		ALS1-PF-G1	Φ 19mm Plastic Roller 
Adjustable Length Twist Lever		ALS1-PF-G3	Φ 50mm Plastic Roller 
Rod Actuator		ALS1-PF-H1	Plastic rod 200mm
Rod Actuator		ALS1-PF-H2	Plastic rod 330mm

ALS Series Limit Switch

Actuator

Name	Type	Model	Remarks
Rod Actuator		ALS1-PF-H3	Aluminum rod 200mm
Rod Actuator		ALS1-PF-H4	Spring rod 200mm
Spring Rod		ALS1-PF-S1	Plastic plunger 50mm
Spring Rod		ALS1-PF-S2	Metal plunger 50mm
Rounded plunger (with M18 x 1 thread)		ALS1-PF-K	With M18 x 1 thread
Roller Plunger (with M18 x 1 thread)		ALS1-PF-L	With M18 x 1 thread