DIN Rail Smart Switch TO-Q-SY1 TO-Q-SY2 Series



DIN Rail Smart Switch TO-Q-SY1 TO-Q-SY2 Series

The TO-Q-SY1 and TO-Q-SY2 are rail-mounted smart series switches, compact in size and versatile in application. They address the issue of limited installation space in circuits, transforming traditional distribution boxes into smart ones. They feature low power consumption, power consumption monitoring, over and under voltage protection, temperature protection, overcurrent protection, and integration with intelligent automation systems.









RDT+RELAY

LED Indicator

The LED indicator flashing blue indicates the network pairing mode.

The LED indicator solid blue shows the switch is on.

The LED off indicates the switch is off.



PRODUCT MODEL		TO-Q-SY	1-W	TO-Q-SY1-Z	TO-Q-SY1-L	TO-Q-SY1-M	
Standards		IEC/EN 60947, IEC/EN 50557, EN 301 489, EN 300 328, EN IEC 61000					
Wiring Mode		DPN 18mm					
Poles Description		Disconnectable L Pole, Direct N Pole					
Operating Rated Voltage	Ue (V)	AC 90 - 240V					
Frequency	Hz		50/60Hz				
Rated Current	In (A)		6, 10, 16, 20, 25, 32, 40, 50, 63				
Operational Safety		Remote setting maintenance switch: which can be set via Apps or other ports to prevent remote accidental switc activation. It requires four consecutive presses to exit maintenance mode				nt remote accidental switch e mode	
		TO-Q-SY1-W TCP/IP: Wi-Fi (2.412~2.484GHz) IEEE 802.11b/g/n					
		TO-Q-SY1-Z Zigbee (2.400~2.483GHz) IEEE 802.15.4					
Communication Protocol		TO-Q-SY1-L LTE Cat.1: LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/38/39/40/41 (2535~2655MHz) LTE-FDD: B1/B3/B5/B7/B8/B20/B28A* LTE-TDD: B38/40/41 GSM/GPRS: GSM900/DCS1800					
		TO-Q-SY1-M TCP/UDP: Matter					
Energy Comsumption Measurement Accuracy				No	ne		
Function Description		Multiple Timing, Remote Control, Voice Control					
Mounting Support				DIN Rai	I 35mm		











Dimensions (mm)













RDT+RELAY

LED Indicator

- The LED indicator flashing blue indicates the device is in pairing mode.The LED solid blue shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- : The button indicator off indicates the switch is off.



PRODUCT MODEL		TO-Q-SY1	-JW	TO-Q-SY1-JZ	TO-Q-SY1-JL	TO-Q-SY1-JM	
Standards		IEC/EN 60947, IEC/EN 50557, EN 301 489, EN 300 328, EN IEC 61000					
Wiring Mode		DPN 18mm					
Poles Description		Disconnectable L Pole, Direct N Pole					
Operating Rated Voltage	Ue (V)	AC 90 - 240V					
Frequency	Hz	50/60Hz					
Rated Current	In (A)			6, 10, 16, 20, 25	5, 32, 40, 50, 63		
Operational Safety	Remote setting maintenance switch: which can be set via Apps or other ports to prevent remote accidental switch activation. It requires four consecutive presses to exit maintenance mode						
		TO-Q-SY1-JW TCP/IP: Wi-Fi (2.412~2.484GHz) IEEE 802.11b/g/n					
		TO-Q-SY1-JZ	Zigbee (2.	400~2.483GHz) IEEE 802.15	4		
Communication Protocol		TO-Q-SY1-JL LTE Cat.1: LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/38/39/40/41 (2535~2655MHz) LTE-FDD: B1/B3/B5/B7/B8/B20/B28A* LTE-TDD: B38/40/41 GSM/GPRS: GSM900/DCS1800					
		TO-Q-SY1-JM	TCP/UDP	: Matter			
Energy Comsumption Measurement Accuracy				Clas	s 2.0		
Monitoring Physical Data		Real-time Voltage, Real-time Current, Real-time Power (Forward), Power Consumption (Forward), Switch State, Device Operating Status				on (Forward), Switch State,	
Function Description		Multiple Timing, Remote Control, Voice Control					
Mounting Support	DIN Rail 35mm						

Wiring Diagram











Dimensions (mm)









TO-Q-SY2

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- 1	Uver-	Jurrent	Pro	ieciion

Threshold Setting: 1A - 63A Status Setting: Off/Alarm/Trip

Electronic Component Response Time: 5s

+ Over-Voltage Protection

Threshold Setting: 245V - 295A Status Setting: Off/Alarm/Trip Electronic Component Response Time: 5s

- Under-Voltage Protection

Threshold Setting: 145V - 220A Status Setting: Off/Alarm/Trip Electronic Component Response Time: 5s

II High Power Protection

Threshold Setting: 1KW - 26KW Status Setting: Off/Alarm/Trip Electronic Component Response Time: 5s

N	L↓
N	L





LED) Indicator
; 777 ;	The LED indicator flashing blue indicates the device is in pairing mode.
;—;	The LED solid blue shows the network is connected.
;777;	The LED off indicates no network connection.
) ();	The button indicator solid red indicates the switch is on.
: () ()	The button indicator off indicates the switch is off.

PRODUCT MODEL		TO-Q-SY2-	JW	TO-Q-SY2-JZ	TO-Q-SY2-JL	TO-Q-SY2-JM		
Standards		IEC/EN 60947, IEC/EN 50557, EN 301 489, EN 300 328, EN IEC 61000						
Wiring Mode		DPN 18mm						
Poles Description		Disconnectable L Pole, Direct N Pole						
Operating Rated Voltage	Ue (V)		AC 90 - 240V					
Frequency	Hz			50/0	50Hz			
Current Frame	In (A)		63					
Operational Safety		Remote setting	maintenanc activati	ce switch: which can be set vi on. It requires four consecuti	a Apps or other ports to preven ve presses to exit maintenance	nt remote accidental switch		
Communication Protocol		TO-Q-SY2-JW TCP/IP: Wi-Fi (2.412~2.484GHz) IEEE 802.11b/g/n						
		TO-Q-SY2-JZ Zigbee (2.400~2.483GHz) IEEE 802.15.4						
		TO-Q-SY2-JL LTE Cat.1: LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/38/39/40/41 (2535~2655MHz) LTE-FDD: B1/B3/B5/B7/B8/B20/B28A* LTE-TDD: B38/40/41 GSM/GPRS: GSM900/DCS1800						
		TO-Q-SY2-JM	TCP/UDP	: Matter				
Energy Comsumption Measurement Accuracy		Class 2.0						
Monitoring Physical Data		Real-time Voltage, Real-time Current, Real-time Power (Forward), Power Consumption (Forward), Switch State, Device Operating Status						
Function Description	Multiple Timing, Over-voltage Protection, Under-voltage Protection, Over-current Protection, Over-Power Protection, Temperature protection, Remote Control, Voice Control							
Mounting Support	DIN Rail 35mm							

Wiring Diagram











Connection		
Rating Tightening torque Copper cables	Copper cables	
M4 Rigid Flex	xible or ferrule	
	-	
	øЦ	
	ñН	
	ПП	
Ĺ S D 1 - 50A 1.8 N.m 1 - 16mm²	1 - 10mm²	
63A 1.8 N.m 16mm ²	/	

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Q

45mm

Dimensions (mm)



