

KNXnet/IP communication support documentation

FUNCTION	FUNCTIONALITIES	USE CASES	KNX	SPECIFICATIONS
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Specifications

PHYSICAL	
Size (HxWxD):	37×42×16 mm /1.46×1.65×0.63 in
Weight:	30 g / 1.06 oz
Screw terminals max torque:	0.4 Nm / 3.5 lbin
Conductor cross section:	0.2 to 2.5 mm ² / 24 to 14 AWG (solid, stranded, and bootlace ferrules)
Conductor stripped length:	6 to 7 mm /0.24 to 0.28 in
Mounting:	Wall console / In-wall box
Shell material:	Plastic
Shell color:	Black
ENVIRONMENTAL	
Ambient working temperature:	-20°C to 40°C / -5°F to 105°F
Humidity:	30% to 70% RH
Max. altitude:	2000 m / 6562 ft
ELECTRICAL	
Power supply:	110-240V~

Power consumption:	< 1.4 W	Output circuits ratings
Max. switching voltage:		
	240V~	
	30V=	Max. switching current:
	16A (240V~)	
	10A (30V=)	
SENSORS, METERS		
Internal-temperature sensor:	Yes	
Voltmeter (AC):	Yes	
Ammeter (AC):	Yes	
SAFETY FUNCTIONS		
Overheating protection:	Yes (AC)	
Overvoltage protection:	Yes (AC)	
Overcurrent protection:	Yes (AC)	
Overpower protection:	Yes	
Obstacle detection	Yes (cover mode)	
Safety switch	Yes (cover mode)	
Radio		
Wi-Fi		
Protocol:	802.11 b/g/n	
RF channel	2400 - 2485 MHz	

Max. RF power:	< 20 dBm
Range:	Up to 50 m / 164 ft outdoors, up to
	30 m / 98 ft indoors (depending on local conditions)
BLUETOOTH	
Protocol:	4.2
RF band:	2400 - 2483.5 MHz
Max. RF power:	<4 dBm
Range:	Up to 30 m / 98 ft outdoors, up to
	10 m / 33 ft indoors (depending on local conditions)
MICROCONTROLLER UNIT	
CPU:	ESP-Shelly-C38F
Flash:	8 MB
FIRMWARE CAPABILITIES	
Schedules:	20
Webhooks (URL actions):	20 with 5 URLs
PER HOOK	
Wi-Fi range extender:	Yes
BLE GATEWAY YES	
Scripting:	Yes
MQTT:	Yes