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designation	GPS 1020 230V / 24V
reference	162190
range	GPS

FUNCTIONS	<p>The GPS 1020 is a power supply and a controller for a group of Somfy 24Vdc actuators. It can be locally controlled with double push buttons or infrared transmitters (IRT 103 or IRT 803), when the infrared sensor is connected.</p> <p>Master control can be achieved through Somfy bus line with a double push button or an automatic control.</p> <p>Possibility to select two tilting functions : CE or US type.</p> <p>CE tilting :</p> <ul style="list-style-type: none"> - Impulse control shorter than 2s → the venetian blind will be activated during the time of pressing (tilting of the slats). - Continuous control longer than 3s → the venetian blind will be activated during 3 minutes * (Up or Down control). <p>US tilting :</p> <ul style="list-style-type: none"> - Impulse control shorter than 0.5s or continuous control longer than 6s → the venetian blind will be activated during 3 minutes * (Up or Down control). - Continuous control longer than 0.5s and shorter than 6s → the venetian blind will be activated during the time of pressing (tilting of the slats). <p>* Possibility to adjust the working time from 5s to 3mn.</p>
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TECHNICAL SPECIFICATIONS	Box	Material Colour Size Flammability level Protection factor against solid and splashproof	ABS KJB 399555 (grey, supplier ref.) 135 X 120 X 44 mm UL94-HB IP 40
	Input	Nominal supply voltage Limits Frequency Power consumption Fuse (can not be replaced by user)	230V AC 207 – 253V AC 50 – 60 Hz 150 W TR5 (2A)
	Output	Nominal load Voltage Ripple rate Fuse (two spare fuses supplied)	5A 24V dc ± 1.2V S.E.L.V. < 5% TR5 (5A)
	Power supply specifications	Type Duty cycle Time before thermal protector trips Dielectric strength	Switching, flyback Intermittent 5 mn at 25°C Class II
	Master control bus line	Voltage on up and down wires Voltage on common wire	5V 0V
	Norms	Electromagnetic compatibility Construction according to CE marking	CEI 1000-4-11 CEI 1000-4-2 8kV minimum CEI 1000-4-3 level III guaranteed CEI 1000-4-4 level III guaranteed CEI 742, EN 60742 EN 55022 class B
	Connectors	Input & actuators Controls	Screw : 4 mm2 rigid Screw : 2.5 mm2 rigid
	Temperature range	Working Storage	0°C to +40°C -15°C to +70°C
	Rate of relative humidity		90% maximum at 25°C
	Net weight (without packing)		460g

PROGRAMMING

Programming mode :
Initial configuration :
 The product is initially configured to operate with no tilting mode, with IRT 103 transmitter and with the IRT 803 transmitter without channel selected.
To enter in programming mode :
 Press and hold the "Prog." Key of the IRT 803 or the "Prog." Push-button inside the GPS 1020 for at least 5 seconds. The red LED inside the GPS 1020 flashes, to indicate that you are in the programming mode for a time period of 3 minutes.

Warning : if you use the IRT 803, it is necessary to "lock" the GPS 1020 which are not being programmed by operating them in either UP or DOWN direction (they will be locked for 3 minutes and it is not possible to enter in the programming mode by the IRT 803). To unlock them, give a STOP order.

Configurations	Actions	Reactions (of the LED)
Channel (1 to 8)	Press the key 1 on the IRT 803 Press a key (from 1 to 8)	The LED of the GPS 1020 switches on. The LED of the GPS 1020 blinks according to the tilting mode selected.
To come back to IRT 103	Press the key 1 on the IRT 803 Press the key 1 → 8	The LED of the GPS 1020 switches on. The LED of the GPS 1020 blinks according to the tilting mode selected.
CE tilting mode	Press the key 2 on the IRT 803 or the "Prog." Push-button on the GPS 1020, to select the CE tilting mode.	The LED on the GPS 1020 blinks twice.
US tilting mode	Press a second time to select the US tilting mode.	The LED on the GPS 1020 blinks three times.
No tilting mode	Press one more time to come back to the initial no tilting mode.	The LED on the GPS 1020 blinks once.
To adjust the working time (the blind has to be in the DOWN position)	Press 5s on the STOP button on the IRT 803 or on the STOP of the individual double push button switch. Press the key "UP" on the transmitter or on the individual double push button switch. When the blind reaches its UP limit, press immediately the STOP key on the transmitter or the STOP of the double push button switch.	The LED on the GPS 1020 switches on. The LED on the GPS 1020 blinks quickly. The LED on the GPS 1020 blinks according to the tilting mode selected. (The working time will be registered with an extra 5s, for safety).
Return to initial configuration (IRT 103 channel, IRT 803 without channel selected, no tilting mode and no adjusting time selected)	Press the key 8 on the IRT 803 Press the key 1 → 8	The LED of the GPS 1020 switches on. The LED on the GPS 1020 blinks once.

To exit from the programming mode, press the "Prog." Push-button inside the GPS 1020 or the "Prog." Key on the IRT 803 for at least 5 seconds.

COMPATIBILITIES

- Sensor :
Infrared sensor (154186)
- Transmitters :
One channel IR transmitter IRT 103 (KE10102)
Eight channels IR transmitter IRT 803 (162172)
- Input :
The BUS line infrared receiver (ERIT728850)
Standard double push-button.
- Compatibility of master controls :
AC motor infrared receiver (ERIT728840)
GPS 1020 230V / 12V (162189)
LMC 1020 230V / 12V (162191)
IRS 300 (12V) / IRS 300 (24V)
- Maximum number of 24V DC motors which can be connected on a GPS 1020 :
11 LT 28 B73 ; 11 LV 25 B44 ; 11 LW 25 B44 ;
9 LV 25 B64 ; 7 LW 25 B83

WIRING

INSTALLATION LIMITS

The total length of the bus line is limited :

Length of the bus line	Number of GPS 1020	Maxi. Length cable 0.75 mm ²	Maxi. Length cable 1.5 mm ²
	10	10	735 m
20	20	350 m	700 m
30	30	230 m	460 m
40	40	170 m	340 m

- indoor fitting only.
- maximum number of IR sensor on a GPS 1020 : 3
- maximum number of GPS 1020 using the same IR : 3
- maximum length of IR cable : 5 meters
- minimum supply voltage of the LV 25 and LW 25 motors is 20V.
- the voltage drop in the line as to be considered.

GMD

D.T.

QUALITY DEP.

VISA :