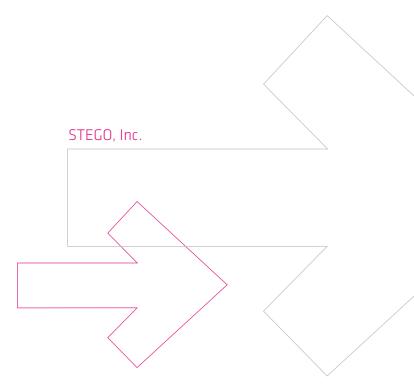


# INIOVATION

## FOR PERFECT THERMAL MANAGEMENT WORLDWIDE

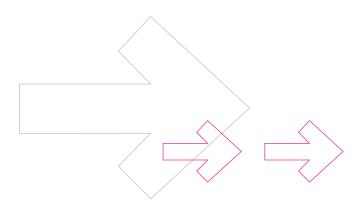


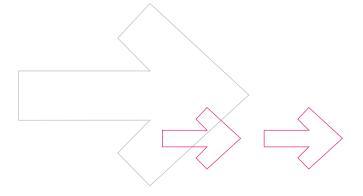




## INNOVATION







## **STEGOJET**

## SJ 019



- > Prevents heat pockets
- > Wide voltage range
- > Compact design

- > Quick connection
- > Clip or screw mounting

The STEGOJET is a compact, powerful built-in fan. It allows precise cooling of heat sources and the air flow prevents formation of heat pockets. Its design offers a maximum rotation range with an air output in almost any direction.

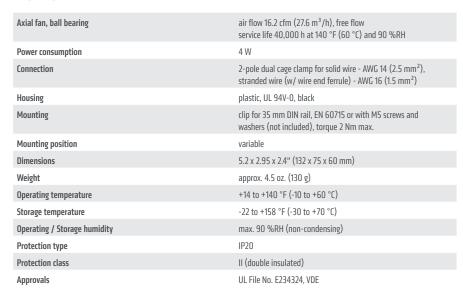
The dual clip system (two clips at a 90° angle) allows four different positions on a DIN rail, while the hinge in the housing can be moved at a 40° angle. Additionally, the airflow at the air outlet can be directed at a 45° angle and the air duct can be turned 360°.

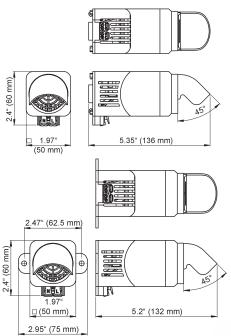


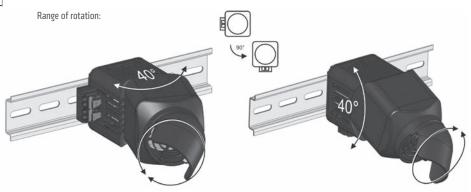




#### TECHNICAL DATA







Part No.	Model	Operating voltage
01925.0-00	DIN rail mounting	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)
01925.0-01	Screw mounting	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)

## **TOUCH-SAFE PTC FAN HEATER**

## CSF 028 | 250 W, 400 W



CSF 028 with DIN clip



CSF 028 with screw mount tabs

Compact size Integrated pre-set thermostat **Quiet operation** 

Heating power adjusts to ambient temperature DIN rail or screw tab mount available

The CSF 028 fan heater prevents formation of condensation and provides evenly distributed interior air temperature in enclosures. The touch-safe plastic housing and the small size makes it ideal for use in enclosures with a high packing density. The heater is equipped with a fixed set point thermostat and is easily wired via external pressure clamps. Two different mounting options are available - DIN rail or screw tabs. The robust screw tab mounting is particularly suitable for applications with high vibration.

## CE GNUS POHS TECHNICAL DATA





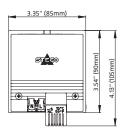
Heating element	PTC resistor - temperature limiting
Surface temperature	250 W: max. +122 °F (+50 °C), 400 W: max. +149 °F (+65 °C) each except upper protective grille at +68 °F (+20 °C) ambient temperature
Overheat protection	built-in temperature limiter
Axial fan, ball bearing	service life 40,000 h at +104 °F (+40 °C)
Axial fan, free blowing	32 cfm (54 m³/h) @ AC 120 V 26 cfm (45 m³/h) @ AC 230 V
Connection	2-pole dual pressure clamp for solid wire AWG 14 max. (2.5 mm²), stranded wire (with wire end ferrule) AWG 16 max. (1.5 mm²)
Housing	plastic according to UL 94V-0, black
Mounting	clip for 35 mm DIN rail, EN 60715 or screw mount (Ø 5.5 mm), clamping torque 2 Nm max., washers must be used
Mounting position	vertical airflow (air outlet up), horizontal airflow
Dimensions	models with DIN clip: 4.13 x 3.35 x 4.65" (105 x 85 x 118 mm), models w/ screw tabs: 4.13 x 4.53 x 4.25" (105 x 115 x 108 mm)
Weight	17.6 oz. (500 g)
Operating temperature	-40 to +158 °F (-40 to +70 °C)
Storage temperature	-49 to +158 °F (-45 to +70 °C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Protection class	II (double insulated)
Protection type	IP20
Approvals	UL File No. E150057, VDE

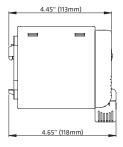
Part No DIN mount	Part No screw tab mount	Operating voltage	Heating capacity <sup>1</sup>	Inrush current max.	Pre-fuse T (time-delay)	Switch-off temperature <sup>2</sup>	Switch-on temperature <sup>2</sup>
02821.9-06	02821.9-08	AC 120 V, 50/60 Hz	250 W	6 A	10 A	+59 °F (+15 °C)	+41 °F (+5 °C)
02821.9-09	02821.9-11	AC 120 V, 50/60 Hz	250 W	6 A	10 A	+77 °F (+25 °C)	+59 °F (+15 °C)
02820.9-06	02820.9-08	AC 120 V, 50/60 Hz	400 W	9 A	10 A	+59 °F (+15 °C)	+41 °F (+5 °C)
02820.9-09	02820.9-11	AC 120 V, 50/60 Hz	400 W	9 A	10 A	+77 °F (+25 °C)	+59 °F (+15 °C)
02821.0-06	02821.0-08	AC 230 V, 50/60 Hz	250 W	9 A	10 A	+59 °F (+15 °C)	+41 °F (+5 °C)
02821.0-09	02821.0-11	AC 230 V, 50/60 Hz	250 W	9 A	10 A	+77 °F (+25 °C)	+59 °F (+15 °C)
02820.0-06	02820.0-08	AC 230 V, 50/60 Hz	400 W	15 A	16 A	+59 °F (+15 °C)	+41 °F (+5 °C)
02820.0-09	02820.0-11	AC 230 V, 50/60 Hz	400 W	15 A	16 A	+77 °F (+25 °C)	+59 °F (+15 °C)

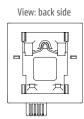
 $<sup>^{1}</sup>$  at +68 °F (+20 °C) ambient temperature;  $^{2}$  tolerance of  $\pm 5~\text{K}$ Note: Other Switch-off and Switch-on temperatures on request

#### TECHNICAL DRAWINGS

#### **DIN RAIL MOUNT**

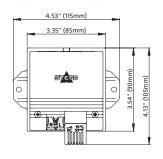


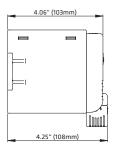


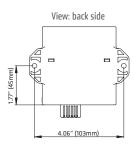


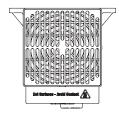


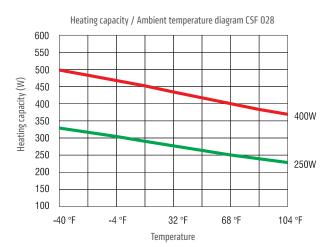
#### SCREW TAB MOUNT

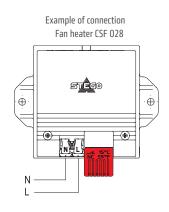












## SPACE-SAVING FAN HEATER (OEM version - no fan provided)

## HVI 030 | 500 to 700 W



- > Compact size
- > Flat design
- > Built-in overheat protection
- > Twist clip or screw mountable
- > End user must attach fan

The compact high-performance fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures with electric/electronic components. The heater may only be operated together with a fan, but is also available without axial fan (for self-installation). The fan heaters are available with two different mounting systems - either mounting by screws or with a new and unique twist clip mounting system. These options allow for a quick and easy installation of the fan heater.

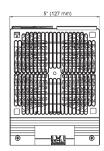


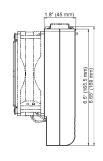




#### TECHNICAL DATA

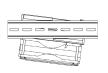
Heating element	high performance cartridge
Overheat protection	with automatic reset and second-tier one shot fuse
Connection	2-pole dual pressure clamp for solid wire AWG 14 max. (2.5 mm²), stranded wire (with wire end ferrule) AWG 16 max. (1.5 mm²)
Housing	plastic, UL 94V-0, black
Mounting	twist clip for 35 mm DIN rail, EN 60715 or M6 screws and washers (not included), torque 2 Nm max.
Mounting position	vertical airflow (air outlet up)
Operating temperature	-40 to +122 °F (-40 to +50 °C)
Storage temperature	-49 to +158 °F (-45 to +70 °C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Dimensions	6.65 x 5.0 x 1.77" (169 x 127 x 45 mm)
Weight	approx. 1.7 lbs (0.77 kg)
Protection type	IP20
Protection class	II (double insulated)
Approvals	UL File No. E234324, VDE, GOST-R
Note	other heating capacities and voltages available on request

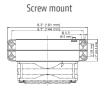














Important note: Heater may only be operated together with fan (min. 88 cfm). Danger of overheating!

Part No twist clip mounting	Part No screw mounting	Operating voltage	Heating capacity	Pre-fuse T (time-delay)
03074.9-00	03074.9-01	AC 120 V, 50/60 Hz	500 W	6.3 A
03073.9-00	03073.9-01	AC 120 V, 50/60 Hz	600 W	6.3 A
03072.9-00	03072.9-01	AC 120 V, 50/60 Hz	700 W	8 A
03074.0-00	03074.0-01	AC 230 V, 50/60 Hz	500 W	3.15 A
03073.0-00	03073.0-01	AC 230 V, 50/60 Hz	600 W	3.15 A
03072.0-00	03072.0-01	AC 230 V, 50/60 Hz	700 W	4 A

## **SPACE-SAVING FAN HEATER** (fan included)

## HVI 030 | 500 to 700 W



- > Compact size
- > Flat design

- > Built-in overheat protection
- > Twist clip or screw mountable

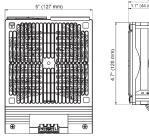
The compact high-performance fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures with electric/electronic components. The heater may only be operated together with a fan, but is also available without axial fan (for self-installation). The fan heaters are available with two different mounting systems – either mounting by screws or with a new and unique twist clip mounting system. These options allow for a quick and easy installation of the fan heater.

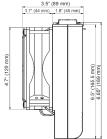




#### TECHNICAL DATA

Heating element	high performance cartridge
Temperature safety cut-out	with automatic reset and second-tier one shot fuse
Axial fan, ball bearing	service life 50,000 h at +77 °F (+25 °C)
Air flow, free blowing	88 cfm (150 m³/h)
Connection	2-pole dual pressure clamp for solid wire AWG 14 max. (2.5 mm²), stranded wire (with wire end ferrule) AWG 16 max. (1.5 mm²)
Housing	plastic, UL 94V-0, black
Mounting	twist clip for 35 mm DIN rail, EN 60715 or M6 screws and washers (not included), torque 2 Nm max.
Mounting position	vertical airflow (air outlet up)
Operating temperature	-14 to +122 °F (-10 to +50 °C)
Storage temperature	-49 to +158 °F (-45 to +70 °C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Dimensions	6.65 x 5.0 x 3.5" (169 x 127 x 89 mm)
Weight	approx. 3.1 lbs (1.4 kg)
Protection type	IP20
Protection class	heater: II (double insulated), fan: I (grounded)
Approvals	UL File No. E234324, VDE, GOST-R
Note	other heating capacities and voltages available on request

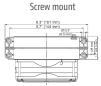




View: back side

Twist clip mount Scre







**Important note:** Heater may only be operated together with fan (min. 88 cfm). **Danger of overheating!** 

Part No twist clip mounting	Part No screw mounting	Operating voltage	Heating capacity	Pre-fuse T (time-delay)
03084.9-00	03084.9-01	AC 120 V, 50/60 Hz	500 W	6.3 A
03083.9-00	03083.9-01	AC 120 V, 50/60 Hz	600 W	6.3 A
03082.9-00	03082.9-01	AC 120 V, 50/60 Hz	700 W	8 A
03084.0-00	03084.0-01	AC 230 V, 50/60 Hz	500 W	3.15 A
03083.0-00	03083.0-01	AC 230 V, 50/60 Hz	600 W	3.15 A
03082.0-00	03082.0-01	AC 230 V, 50/60 Hz	700 W	4 A

## **ELECTRONIC HYGROTHERM**

## ETF 012



- > Efficient temperature & humidity control
- > Wide voltage range

- > Operating temperature down to -40 °C
- > High switching capacity
- > DIN rail mountable

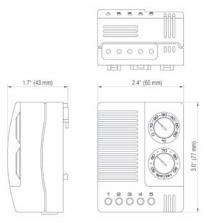
The ETF 012 senses the ambient temperature and relative air humidity in an enclosure. Depending on which contact combination is chosen, it then turns on or off a connected device if either the temperature is below or the humidity is above the set point. The integrated LED in each adjustment knob is lit when indicating the active function.

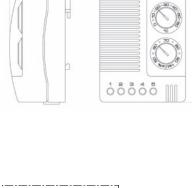


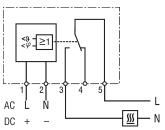






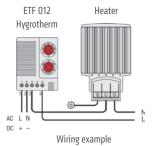






Switch difference (temperature)	2 K (±1 K tolerance) at +25 °C (+77 °F), 50 %RH
Switch difference (humidity)	4 %RH (±1 % tolerance) at +25 °C (+77 °F), 50 %RH
Reaction time (humidity)	approx. 5 sec.
Contact type	change-over contact (relay)
Service life	VDE: NO/NC > 15,000 cycles UL: NO/NC > 30,000 cycles
Max. switching capacity (relay output)	10 A resistive / 1.6 A inductive @ AC 240 V 0.6 A @ DC 60 $\mathrm{V}^1$
Max. inrush current	AC 30 A for 10 sec.
Connection	5-pole terminal, clamping torque 0.5 Nm max.: solid wire - AWG 14 max. (2.5 mm²) stranded wire (with wire end ferrule) - AWG 16 max. (1.5 mm²)
Housing	plastic, UL 94V-0, light grey
Mounting	clip for 35 mm DIN rail, EN 60715
Mounting position	vertical
Operating/Storage temperature	-40 to +14 °F (-40 to +60 °C)
Operating/Storage humidity	max. 95 %RH (non-condensing)
Dimensions	3.0 x 2.4 x 1.7" (77 x 60 x 43 mm)
Weight	approx. 3.5 oz. (100g)
Protection type	IP20
Approvals	UL File No. E164102, VDE, GOST-R

<sup>&</sup>lt;sup>1</sup> not UL confirmed



Part No.	Operating voltage	Setting range - temperature	Setting range - humidity
01230.0-00	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	0 to +60 °C	50 to 90 %RH
01230.9-00	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	+32 to +140 °F	50 to 90 %RH
01230.1-00	DC 24-48 V (min. DC 20 V, max. DC 60 V)	0 to +60 °C	50 to 90 %RH

## **ELECTRONIC HYGROTHERM WITH EXTERNAL SENSOR**

## ETF 012



- > Efficient temperature & humidity control
- > Wide voltage range

- > Operating temperature down to -40 °C
- > High switching capacity
- > With external sensor

The ETF 012 senses the ambient temperature and relative humidity in an enclosure. Depending on which contact combination is chosen, it then turns on or off a connected device if either the temperature is below or the humidity is above the set point. The integrated LED in each adjustment knob i lit when indicating the active function.

The external sensor can be positioned freely anywhere in the enclosure for precise measurements.

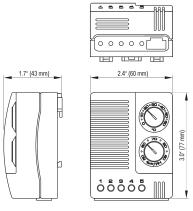




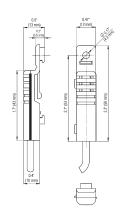






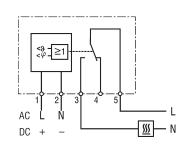


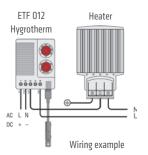
1.7* (43 mm)	2.4° (60 mm)
	30. (77 mm)



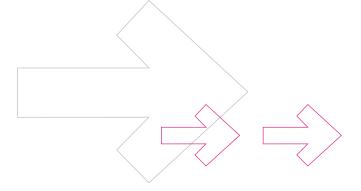
2 K (±1 K tolerance) at +25 °C (+77 °F), 50 %RH
4 %RH (±1 % tolerance) at +25 °C (+77 °F), 50 %RH
approx. 5 sec.
change-over contact (relay)
VDE: NO/NC > 15,000 cycles UL: NO/NC > 30,000 cycles
10 A resistive / 1.6 A inductive @ AC 240 V 0.6 A @ DC 60 V $^{\rm 1}$
AC 30 A for 10 sec.
5-pole terminal, clamping torque 0.5 Nm max.: solid wire - AWG 14 max. (2.5 mm²) stranded wire (with wire end ferrule) - AWG 16 max. (1.5 mm²)
plastic, UL 94V-0, light grey
clip for 35 mm DIN rail, EN 60715
vertical
-40 to +14 °F (-40 to +60 °C)
max. 95 %RH (non-condensing)
3.0 x 2.4 x 1.7" (77 x 60 x 43 mm)
approx. 3.5 oz. (100 g)
IP20

<sup>1</sup> not UL confirmed





Part No. Cable - 1 m	Part no. Cable - 2 m	Operating voltage	Setting range - temperature	Setting range - humidity
01231.0-00	01231.0-01	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	0 to +60 °C	50 to 90 %RH
01231.9-00	01231.9-01	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	+32 to +140 °F	50 to 90 %RH
01231.1-00	01231.1-01	DC 24-48 V (min. DC 20 V, max. DC 60 V)	0 to +60 °C	50 to 90 %RH



PRODUCT CATALOG - STEGO, Inc.

PERFECT THERMAL MANAGEMENT

13

## **DOOR SWITCH**

## DS 013

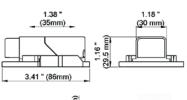


- > Tool-free adjustable switch positioning
- > Strain relief, suitable for range of cable diameters
- > High switching capacity
- > Suitable for lamp LED 025 and other devices

The door switch monitors the position of cabinet doors and is available in three versions. For example, it can be used for switching a light when opening a door (NC), or to activate a fan when closing a door (NO). The version with change-over contact (CO) can be used as a normally closed and/or normally open contact. The wide mechanical adjustment range of the door switch DS 013 offers versatile mounting: the housing is adjustable within a 1-3/8" (35 mm) range, while the screw flange with a slotted hole offers an additional 13/16" (21 mm). The travel of the switch itself is another 5/16" (8 mm).

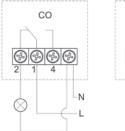
#### TECHNICAL DATA

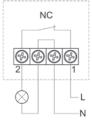
Max. switching capacity	10 A resistive / 1.5 A inductive @ AC 250 V		
Service life	VDE: > 10,000 cycles		
	UL: > 6,000 cycles		
Connection	4-pole clamp with strain relief, clamping torque 0.5 Nm max.		
Housing	plastic according to UL 94V-0, grey/black		
Mounting	M5 screws (not included)		
Mounting position	variable		
Operating / Storage temperature	-4 to +185 °F (-20 to +85 °C)		
Operating/Storage humidity	max. 90 %RH (non-condensing)		
Dimensions	3.4 x 2.5 x 1.2" (87 x 64 x 30 mm)		
Weight	approx. 1.8 oz. (50 g)		
Protection type	IP20		
Approvals	UL & VDE intended		

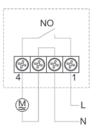






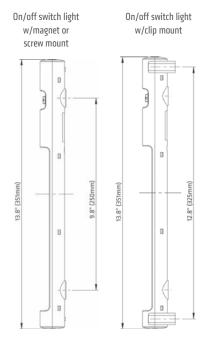






Part No.	Model	Suitable wire
01350.0-00	change-over (CO)	Round cable, stranded wire (with wire end ferrule) AWG 18 to 17 (0.75 mm <sup>2</sup> to 1 mm <sup>2</sup> )
01351.0-00	normally closed (NC)	Round cable, stranded wire (with wire end ferrule) AWG 18 to 16 (0.75 mm <sup>2</sup> to 1.5 mm <sup>2</sup> )
01352.0-00	normally open (NO)	Round cable, stranded wire (with wire end ferrule) AWG 18 to 16 (0.75 mm <sup>2</sup> to 1.5 mm <sup>2</sup> )





- > Energy saving LED technology
- > Wide voltage range
- > Integrated power unit

- > Magnet, screw or clip mount
- > Wide variety of connections
- > On/off switch or motion sensor

The LED 025 light series is suitable for all types of panels and enclosures, especially where space is at a premium. These lights have a very long service life due to the use of LED technology. They are available with powerful non-slip rubberized magnets allowing them to be easily positioned in any steel enclosure. Screw mounting is also available as an option. The power output allows up to 10 lights to be connected to each other (daisy chain) with both the input and output plugs snap-locking into place.



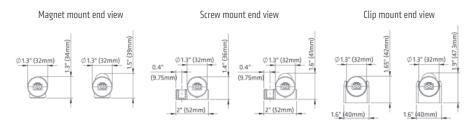




#### TECHNICAL DATA

Power consumption	max. 5 W (~ 75 W incandescent bulb)
Luminosity	290 Lm at 120° (870 Lm at 360° or equivalent 75W light bulb)
Lamp type	LED, 120° angle of radiation light color - daylight, color temperature - 6,500 K
Service life	60,000 hrs. at 68 °F (20 °C)
Connection	2-pole plug with snap lock; AC: max. 2.5 A / AC 240 V, white connector; DC: max. 2.5 A / DC 60 V, blue connector
Housing	plastic, transparent
Mounting	magnet, M5 screws (not included), or clip (M6 screws) torque 2 Nm max.
Operating temperature	-22 to +140 °F (-30 to +60 °C)
Storage temperature	-40 to +185 °F (-40 to +85 °C)
Dimensions	see drawings
Protection type/Protection class	IP20 / II (double insulated)
Accessories	input and output connector, cable for supply or daisy chain
Approvals	UL File No. E234324, VDE, GOST-R

Mounting options: The lights are available with magnet mount for easy positioning in any steel cabinet or enclosure. Other options are the LED 025 with screw mount, and specifically designed clip holders for clip mount of the LED 025 can also be positioned anywhere in the cabinet. The clip holders are screwed to the cabinet wall, the lamp is simply snapped into the clip holders and can be rotated as needed for a perfect illumination.



#### LIGHT KITS WITH INPUT CONNECTOR INCLUDED

Part No magnet mount	Part No screw mount	Part No clip mount	Operating voltage	Switch type	Weight
02540.0-00-0003	02540.0-01-0003	02540.0-03-0003	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	on/off switch	4.8 oz. (135 g)
02540.1-00-0003	02540.1-01-0003	02540.1-03-0003	DC 24-48 V (min. DC 20 V, max. DC 60 V)	on/off switch	4.8 oz. (135 g)
02541.0-00-0003	02541.0-01-0003	02541.0-03-0003	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	PIR motion sensor <sup>1</sup>	5.0 oz. (140 g)
02541.1-00-0003	02541.1-01-0003	02541.1-03-0003	DC 24-48 V (min. DC 20 V, max. DC 60 V)	PIR motion sensor <sup>1</sup>	5.0 oz. (140 g)

<sup>&</sup>lt;sup>1</sup> Passive Infrared (PIR) motion sensor is factory pre-set to turn the light off 6 minutes after all motion ceases

#### LIGHT ONLY

Part No magnet mount	Part No screw mount	Part No clip mount	Operating voltage	Switch type	Weight
02540.0-00	02540.0-01	02540.0-03	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	on/off switch	4.8 oz. (135 g)
02540.1-00	02540.1-01	02540.1-03	DC 24-48 V (min. DC 20 V, max. DC 60 V)	on/off switch	4.8 oz. (135 g)
02541.0-00	02541.0-01	02541.0-03	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	PIR motion sensor <sup>1</sup>	5.0 oz. (140 g)
02541.1-00	02541.1-01	02541.1-03	DC 24-48 V (min. DC 20 V, max. DC 60 V)	PIR motion sensor <sup>1</sup>	5.0 oz. (140 g)

<sup>&</sup>lt;sup>1</sup> Passive Infrared (PIR) motion sensor is factory pre-set to turn the light off 6 minutes after all motion ceases

#### ACCESSORIES

#### CONNECTION CABLE WITH INPUT CONNECTOR AND WIRE LEADS



Photo: Connection cable, Part No. 244356

Part No.	Model	Length	Voltage	Color	Approvals <sup>2</sup>
244357	connection cable 2 x AWG 16 with input connector	2.0 m	AC	connector: white - cable: white	UL, VDE
244361	connection cable 2 x AWG 16 with input connector	2.0 m	DC	connector: blue - cable: white	UL, VDE

<sup>&</sup>lt;sup>2</sup> applies only to the individual components (cable and connectors)

#### EXTENSION CABLE WITH 2 CONNECTORS FOR DAISY CHAIN (INPUT & OUTPUT) CONNECTION



Photo: Extension cable, Part. No. 244358

Part No.	Model	Length	Voltage	Color	Approvals <sup>2</sup>
244359	extension cable 2 x AWG 16 with 2 connectors	1.0 m	AC	connectors: white - cable: white	UL, VDE
244363	extension cable 2 x AWG 16 with 2 connectors	1.0 m	DC	connectors: blue - cable: white	UL, VDE

<sup>&</sup>lt;sup>2</sup> applies only to the individual components (cable and connectors)

#### INPUT / OUTPUT CONNECTORS



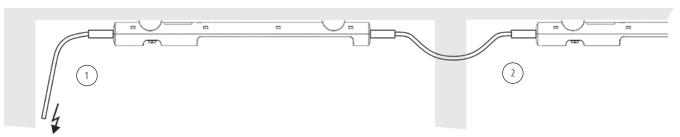




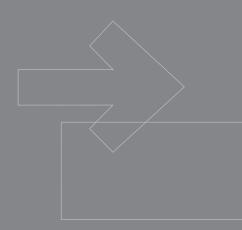
Photo: Output connector, Part No. 264058

Part No.	Model	Voltage	Color	Approvals
264057	input connector	AC	white	UL, VDE
264058	output connector	AC	white	UL, VDE
264059	input connector	DC	blue	UL, VDE
264060	output connector	DC	blue	UL, VDE

#### **CONNECTION EXAMPLE**



This illustration shows the LED 025 light in a daisy chain application. The lights are easily connected via quick connection plugs - up to 10 lights can be daisy-chained this way. The snap-lock connectors ensure a stable electrical connection even when subjected to vibration. Input / output connectors are also available to assemble cables in non-standard lengths.



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