

SELECTION GUIDE

Industrial Thermoregulation and Panel Lighting

Products for panels and enclosures

7T Series - Thermo-Hygrostats and Thermostats

7F Series - Filter Fans

7H Series - Panel Heaters

7L Series - LED panel lights



ABOUT US

Finder was founded in Italy in 1954. Since then it has been designing and manufacturing a wide range of electromechanical and electronic components for both the residential and industrial sectors.

Today, thanks to its global vision, Finder now distributes its products around the world through a network of 27 company-owned subsidiaries and more than 80 trade partnerships.

Finder is an international family made up of more than 1300 individuals, all united by the same values and passion for our products.



14 500

Different products to satisfy a myriad of applications. From products at the heart of automation to the control of machines, power, time, temperature, liquid level, light and much more.

OUR PRODUCTS CARRY MORE CERTIFICATIONS THAN ANY OTHER RELAY MANUFACTURER



FINDER IS AN ITALIAN BRAND WITH A WORLDWIDE PRESENCE

4

PRODUCTION PLANTS IN EUROPE

27

SUBSIDIARIES

80+

OFFICIAL DISTRIBUTORS



The perfect climate and lighting within control panels



Guaranteed
performance



High precision



Compact size

Thermo-hygrostats and Thermostats 7T Series

Ensuring the performance of components and instrumentation within control panels and enclosures - often enhancing product life.

Filter Fans 7F Series

New filter fan range to ventilate and safeguard against high enclosure temperatures.

Panel Heaters 7H Series

Preventing the formation of condensation and ensuring the optimum temperature within electrical enclosures.
Heating power from 25 W to 400 W.

LED panel lights 7L Series

Available in two brightness levels, 600 lumens or 1200 lumens, these new 7L Series LED panel lights featuring magnetic mounting are the ideal solution for perfect lighting for machines and electrical panels.



SPD
Scaricatori di sovratensione
Serie 7P

Contatore
di energia
Serie 7E

Contattori
modulari
Serie 22

Relè di controllo
tensione
Serie 70

Termostati
da quadro
Serie 7T

SPD Scaricatore
di sovratensione
Serie 7P

Relè allo stato solido
modulari
Serie 77

Relè allo stato solido
"a saponetta"
Serie 77

Alimentazione
Switching
Serie 33

Serie 83

Relè
SARTimer
Serie 84

Interfacce modulari a relè
Serie 4C

Interfacce modulari a relè
Master Plus con relè EMR
Serie 39

7T Series

Panel Thermo-Hygrostats
and Thermostats



Drying kilns



Industrial
refrigeration



Road / tunnel
lighting



Industrial
furnaces and
ovens



Automatic
car-washes



Panels for
electrical
distribution



Control panels



Forced-air
ventilators

Panel Thermo-Hygrostats



Type 7T.51.0.230.4360

Electronic control

Small, compact size (17.5 mm wide)

1 NO 10 A - 250 V AC1

4 functions

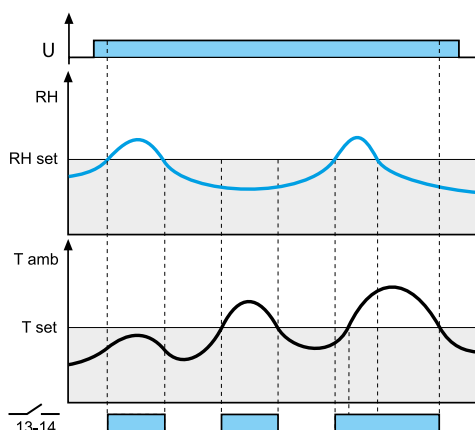
Nominal voltage 110...240 V AC/DC

Temperature ranges from +10° to +60°C

Humidity range up to 90%

LED status indication contact ON

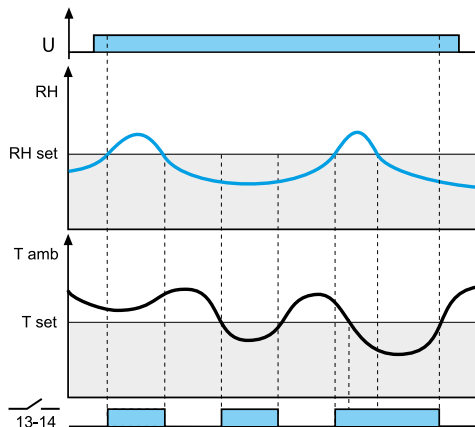
Approvals (according to type):



HT: $RH > RH_{set}$ OR $T_{amb} > T_{set}$

Power is permanently applied to the thermo-hygrostat.
The contact 13-14 closes if the ambient humidity (RH) is $>$ of set humidity (RHset) OR if the ambient temperature (Tamb) is $>$ of set temperature (Tset).

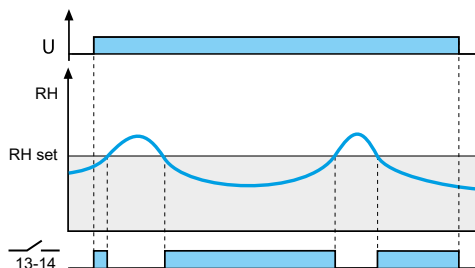
When contact is closed, LED is ON



TH: $RH > RH_{set}$ OR $T_{amb} < T_{set}$

The contact 13-14 closes if the ambient humidity (RH) is $>$ of set humidity (RHset) OR if the ambient temperature (Tamb) is $<$ of set temperature (Tset).

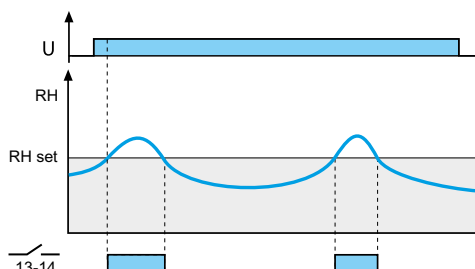
When contact is closed, LED is ON



HL: $RH < RH_{set}$

The contact 13-14 closes if the ambient humidity (RH) is $<$ of set humidity (RHset).

When contact is closed, LED is ON



HM: $RH > RH_{set}$

The contact 13-14 closes if the ambient humidity (RH) is $>$ of set humidity (RHset).

When contact is closed, LED is ON

Panel Thermostats

Small, compact size (17.5 mm wide)
 1 NC 10 A - 250 V AC1
 Snap action thermostatic Bimetal sensor
 Wide temperature setting range
 Long electrical life
 35 mm rail (EN 60715) mount

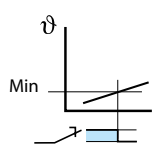
Approvals (according to type): **CE** **EAC** **03** **UL** **US**



Type 7T.81.0.000.240x

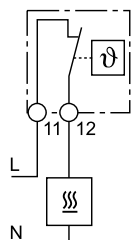


Type 7T.81.0.000.230x



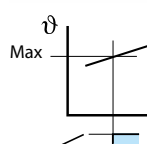
Heating control

Should the panel temperature fall below the (minimum) set temperature the contact will close to call for heat. The contact will open when this set temperature is exceeded.



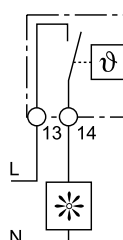
Heating: Red Dial

Temperature ranges: $-20^{\circ}\text{ a }+40^{\circ}\text{C}$
 $0^{\circ}\text{ a }+60^{\circ}\text{C}$



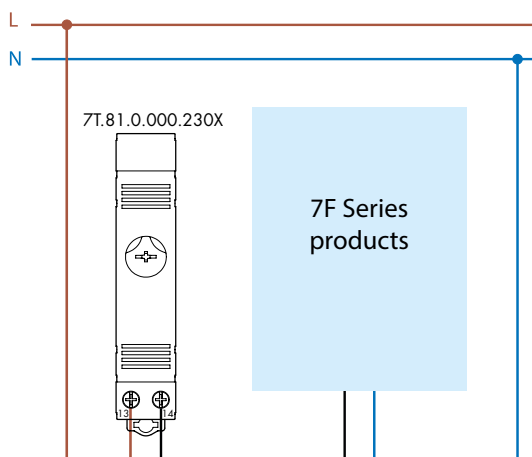
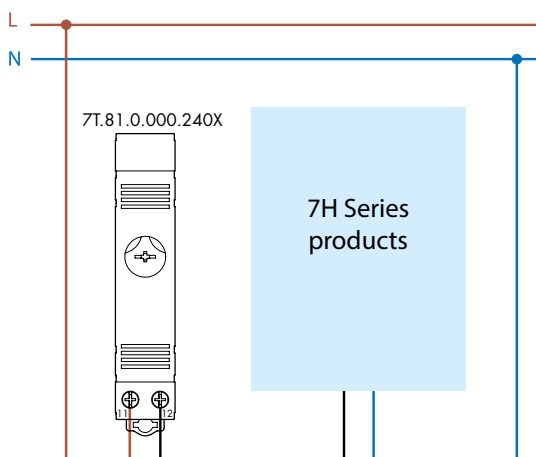
Ventilation control

Should the panel temperature exceed the (maximum) set temperature then the contact will close to call for cooling. The contact will open when the temperature falls below this set temperature.



Ventilation: Blue Dial

Temperature ranges: $-20^{\circ}\text{ a }+40^{\circ}\text{C}$
 $0^{\circ}\text{ a }+60^{\circ}\text{C}$



7F Series

Filter Fans and
Exhaust Filters

Filter Fans

Easily replaceable filter mat
Minimal depth within enclosure
Air volume (24...100)m³/h
Time-saving installation and maintenance
Very low acoustic noise
Protection category IP54/Type 12

Approvals (according to type): **CE** **EAC** **CUL** **UL**



Drying kilns



Textile
machines



Machines
for paper
processing



Machines
for
ceramics



Wood-
processing
machines



Panels for
electrical
distribution



Control
panels



Forced-air
ventilators



Type 7F.20.8.xxx.1020

Operating voltage (120 or 230)V AC
Air volume 24 m³/h
Rated power 13 W
Size 1

Type 7F.20.9.024.1020

Operating voltage 24V DC
Air volume 24 m³/h
Rated power 3.6 W
Size 1



Type 7F.20.8.xxx.2055

Operating voltage (120 or 230)V AC
Air volume 55 m³/h
Rated power 22 W
Size 2

Type 7F.20.9.024.2055

Operating voltage 24V DC
Air volume 55 m³/h
Rated power 9 W
Size 2



Type 7F.20.8.xxx.3100

Operating voltage (120 or 230)V AC
Air volume 100 m³/h
Rated power 22 W
Size 3

Type 7F.20.9.024.3100

Operating voltage 24V DC
Air volume 100 m³/h
Rated power 22 W
Size 3





Exhaust Filters

The size of the Exhaust Filter should match the size of the Filter Fan to achieve the best ventilation within the cabinet.

Time-saving installation and maintenance

Easily replaceable filter mat

Protection category IP54/Type 12

Approvals (according to type):    



Type 7F.02.0.000.1000

For Filter Fans

Type 7F.20.x.xxx.1020

Size 1



Type 7F.02.0.000.2000

For Filter Fans

Type 7F.20.x.xxx.2055

Size 2



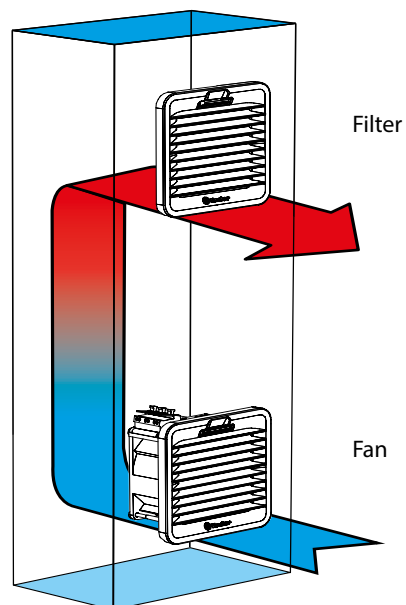
Type 7F.02.0.000.3000

For Filter Fans

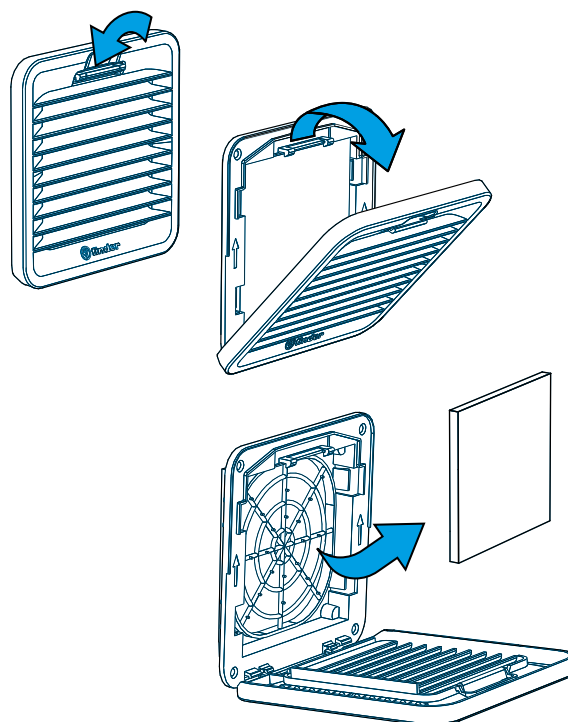
Type 7F.20.x.xxx.3100

Size 3

Mounting arrangement of Filter Fan and Exhaust Filter



Replacement of Filter mat



7F Series

Filter Fans and
Exhaust Filters



Drying kilns



Textile
machines



Machines
for paper
processing



Machines
for
ceramics



Wood-
processing
machines



Panels for
electrical
distribution



Control
panels



Forced-air
ventilators

Filter Fans

Minimal depth within enclosure

Air volume (230...630)m³/h

Very low acoustic noise

Protection category (according to type): IP54/Type 12

Approvals (according to type): **CE** **EAC** **cULus**



Type 7F.20.8.xxx.4250

Operating voltage (120 or 230)V AC

Air volume 250 m³/h

Rated power 45 W

Size 4

Type 7F.20.9.024.4250

Operating voltage 24 V DC

Air volume 250 m³/h

Rated power 45 W

Size 4



Type 7F.20.8.xxx.4400

Operating voltage (120 or 230)V AC

Air volume 400 m³/h

Rated power 70 W

Size 4



Type 7F.50.8.xxx.5500

Operating voltage (120 or 230)V AC

Air volume 500 m³/h

Rated power 70 W

Size 5



Type 7F.50.8.xxx.5630

Operating voltage (120 or 230)V AC

Air volume 630 m³/h

Rated power 130 W

Size 5

Exhaust Filters

The size of the Exhaust Filter should match the size of the Filter Fan to achieve the best ventilation within the cabinet.

Minimal depth within enclosure
Protection category IP54/Type 12

Approvals (according to type): **CE** **EAC** **cULUS**



Type 7F.02.0.000.4000
For Filter Fans
Type 7F.20.x.xxx.4250 or
Type 7F.20.8.xxx.4400

Size 4



Type 7F.05.0.000.5000
For Filter Fans
Type 7F.50.8.xxx.5500 or
Type 7F.50.8.xxx.5630

Size 5

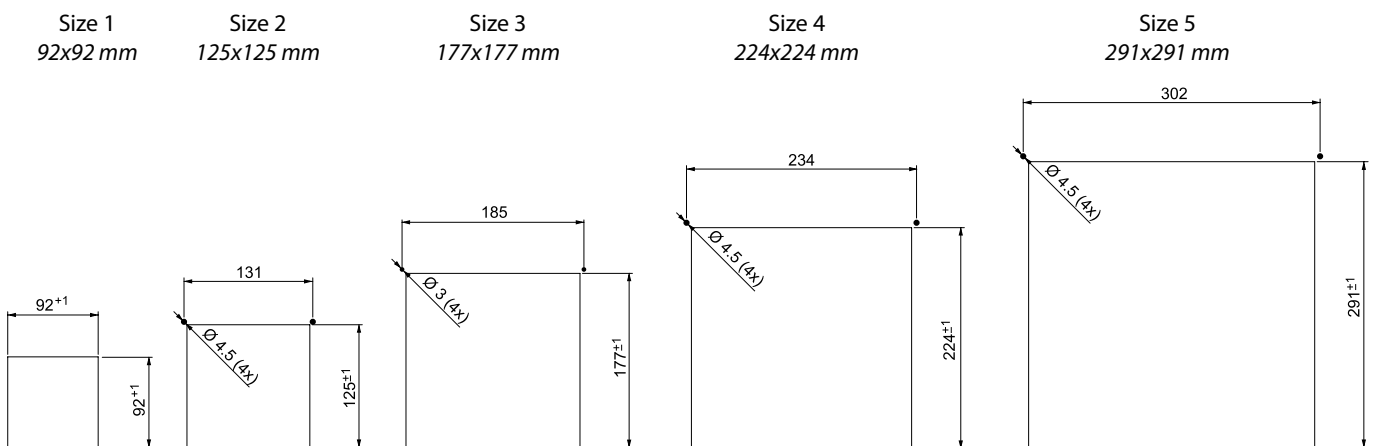
Filter Fans - Available versions

Standard versions	EMC versions	Reverse flow versions	Size
7F.20.8.120.1020	—	7F.21.8.120.1020	1
7F.20.8.120.2055	—	7F.21.8.120.2055	2
7F.20.8.120.3100	—	7F.21.8.120.3100	3
NEW 7F.20.8.120.4250	—	7F.21.8.120.4250	4
NEW 7F.20.8.120.4400	—	7F.21.8.120.4400	4
7F.50.8.120.5500	—	7F.80.8.120.5500	5
7F.50.8.120.5630	—	—	5
7F.20.8.230.1020	—	7F.21.8.230.1020	1
7F.20.8.230.2055	—	7F.21.8.230.2055	2
7F.20.8.230.3100	—	7F.21.8.230.3100	3
NEW 7F.20.8.230.4250	—	7F.21.8.230.4250	4
NEW 7F.20.8.230.4400	—	7F.21.8.230.4400	4
7F.50.8.230.5500	7F.70.8.230.5500	7F.80.8.230.5500	5
7F.50.8.230.5630	7F.70.8.230.5630	—	5
7F.20.9.024.1020	—	7F.21.9.024.1020	1
7F.20.9.024.2055	—	7F.21.9.024.2055	2
7F.20.9.024.3100	—	7F.21.9.024.3100	3
NEW 7F.20.9.024.4250	—	7F.21.9.024.4250	4

Components

Standard-Filter Fan	Standard-Exhaust Filter	Filter mat	Size
7F.20.8.xxx.1020	7F.02.0.000.1000	07F.15	1
7F.20.8.xxx.2055	7F.02.0.000.2000	07F.25	2
7F.20.8.xxx.3100	7F.02.0.000.3000	07F.35	3
NEW 7F.20.8.xxx.4250	7F.02.0.000.4000	07F.45	4
NEW 7F.20.8.xxx.4400	7F.02.0.000.4000	07F.47	4
7F.50.8.xxx.5500	7F.05.0.000.5000	07F.55	5
7F.50.8.xxx.5630	7F.05.0.000.5000	07F.55	5
7F.20.9.024.1020	7F.02.0.000.1000	07F.15	1
7F.20.9.024.2055	7F.02.0.000.2000	07F.25	2
7F.20.9.024.3100	7F.02.0.000.3000	07F.35	3
NEW 7F.20.9.024.4250	7F.02.0.000.4000	07F.45	4

EMC-Filter Fan	EMC-Exhaust Filter	Filter mat	Size
7F.70.8.230.5500	7F.07.0.000.5000	07F.55	5
7F.70.8.230.5630	7F.07.0.000.5000	07F.55	5



7H Series

Panel Heaters

Panel Heaters

Nominal voltage 120 or 230 V AC
PTC resistor, self regulating heating system
Fan assisted heaters
Fast wiring terminals
Safe touch
Clip for 35 mm rail (EN 60715) mount

Approvals (according to type): **CE** **EAC** **cULus**



Drying kilns



Hoists and cranes



Road / tunnel lighting



Plastic moulding machines



Automatic car-washes



Panels for electrical distribution



Control panels



Forced-air ventilators



Type 7H.51.8.230.0250

Heater power 250 W

Fan assisted

Dimensions (w x h x d): 88.2 x 28.7 x 67 mm

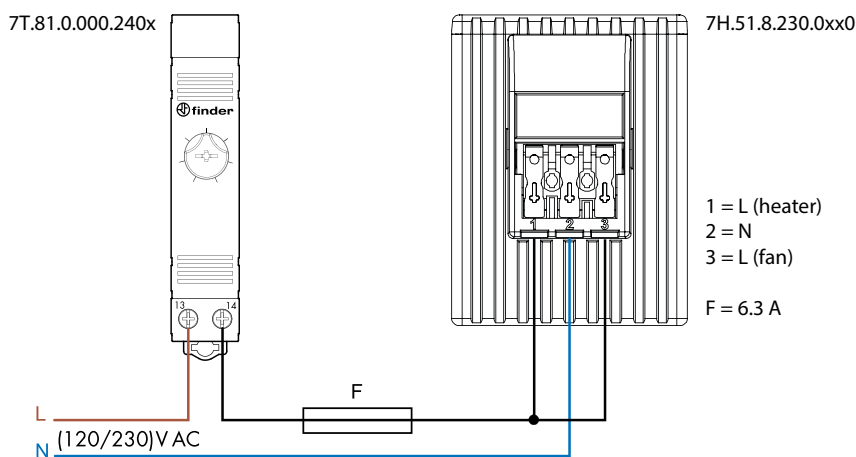


Type 7H.51.8.230.0400

Heater power 400 W

Fan assisted

Dimensions (w x h x d): 88.2 x 28.7 x 67 mm



NOTE

Separate supply (L) terminals for the heater and the internal fan allow them to be powered independently. So, dependent on the specific situation, the installer might wish the heating element to be controlled by an upstream thermostat but require the fan to run continuously (although the latter will significantly reduce the product's life).

Panel Heaters

Nominal voltage (110...230)V AC/DC
PTC self regulating heating system
Screw terminals
Safe touch
Clip for 35 mm rail (EN 60715) mount

Approvals (according to type): **CE** **EAC** **cULus**



Type 7H.51.0.230.0025
Heater power 25 W



Type 7H.51.0.230.0100
Heater power 100 W
Dimensions (w x h x d): 70 x 140 x 63 mm

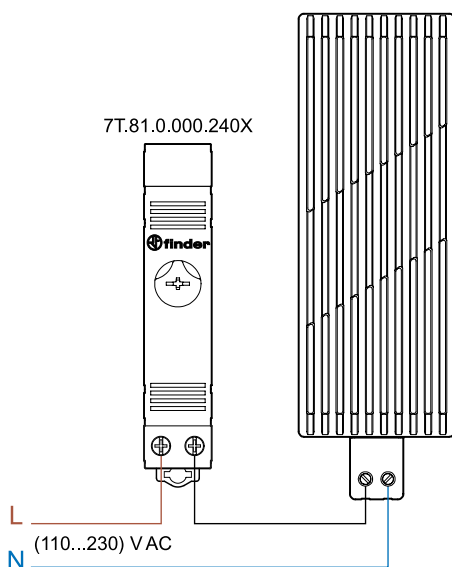


Type 7H.51.0.230.0150
Heater power 150 W
Dimensions (w x h x d): 70 x 220 x 63 mm

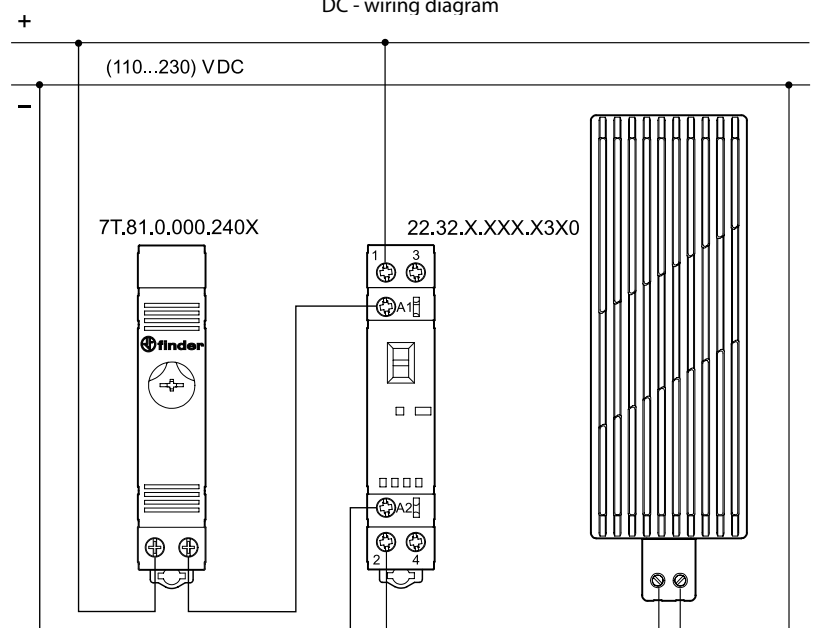
Type 7H.51.0.230.0050
Heater power 50 W

Dimensions (w x h x d): 41 x 125 x 41 mm

AC - wiring diagram



DC - wiring diagram



7L Series

LED panel lights

LED panel lights

Type 7L.43.0.xxx.xx00 - Brightness level: 600 lumens

Type 7L.46.0.xxx.xx00 - Brightness level: 1200 lumens

Direct magnetic mounting or through a screw-fixed metallic support



Power supply - Multi-voltage: 12...48 V AC/DC and 110...240 V AC/DC

Low energy consumption

Nominal power consumption: 6 W (600 lm), 9 W (1200 lm)

Push-in terminals for the connection to a single unit

Plug-in terminals for the connection to a single or multiple units (up to 7 lamps)

Approvals (according to type):  



Panels for
electrical
distribution



Control
panels



Radiation angle: 120°



Multi-voltage



Colour temperature: 5000 K



Protection category: IP20



Push-in terminals for the
connection to a single unit



Plug-in terminals for the
connection to a single or
multiple units (up to 7 lamps)

Design by MINELLI | FOSSATI

NEW

Code Lamps	Lumen	Supply voltage	Switching	Connections
7L.43.0.024.0100	600	024 = (12...48)V AC/DC	Without ON/OFF switch and movement detector	Push-in terminals
7L.43.0.024.0200	600	024 = (12...48)V AC/DC	Without ON/OFF switch and movement detector	Plug-in terminals
7L.43.0.230.0100	600	230 = (110...240)V AC/DC	Without ON/OFF switch and movement detector	Push-in terminals
7L.43.0.230.0200	600	230 = (110...240)V AC/DC	Without ON/OFF switch and movement detector	Plug-in terminals
7L.43.0.024.1100	600	024 = (12...48)V AC/DC	Via ON/OFF switch	Push-in terminals
7L.43.0.024.1200	600	024 = (12...48)V AC/DC	Via ON/OFF switch	Plug-in terminals
7L.43.0.024.2100	600	024 = (12...48)V AC/DC	Via movement detector	Push-in terminals
7L.43.0.024.2200	600	024 = (12...48)V AC/DC	Via movement detector	Plug-in terminals
7L.43.0.230.1100	600	230 = (110...240)V AC/DC	Via ON/OFF switch	Push-in terminals
7L.43.0.230.1200	600	230 = (110...240)V AC/DC	Via ON/OFF switch	Plug-in terminals
7L.43.0.230.2100	600	230 = (110...240)V AC/DC	Via movement detector	Push-in terminals
7L.43.0.230.2200	600	230 = (110...240)V AC/DC	Via movement detector	Plug-in terminals
7L.46.0.024.1100	1200	024 = (12...48)V AC/DC	Via ON/OFF switch	Push-in terminals
7L.46.0.024.1200	1200	024 = (12...48)V AC/DC	Via ON/OFF switch	Plug-in terminals
7L.46.0.024.2100	1200	024 = (12...48)V AC/DC	Via movement detector	Push-in terminals
7L.46.0.024.2200	1200	024 = (12...48)V AC/DC	Via movement detector	Plug-in terminals
7L.46.0.230.1100	1200	230 = (110...240)V AC/DC	Via ON/OFF switch	Push-in terminals
7L.46.0.230.1200	1200	230 = (110...240)V AC/DC	Via ON/OFF switch	Plug-in terminals
7L.46.0.230.2100	1200	230 = (110...240)V AC/DC	Via movement detector	Push-in terminals
7L.46.0.230.2200	1200	230 = (110...240)V AC/DC	Via movement detector	Plug-in terminals

Switching without
ON/OFF switch or
movement detector



Switching via
ON/OFF switch



Switching via
movement
detector



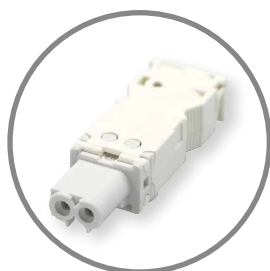
Magnetic fixing
direct to metallic panel



Magnetic fixing
via screw-fixed
metallic support



Rotational
adjustment 30°



Type 07L.11
Socket for connection
to a 2-core cable (2 x 1.5 mm²),
e.g. H05VV-F, 2 x 1.5 mm²
Loose item - for the input side
(included in the package)



Type 07L.12
Plugs for connection
to a 2-core cable (2 x 1.5 mm²),
e.g. H05VV-F, 2 x 1.5 mm²
Loose item - for the output side
(not included)



FINDER S.p.A.

Via Drubiaglio, 14 - 10040 ALMESE (TO) - ITALY
tel +39 011 9346211 - fax +39 011 9359079

export@findernet.com



findernet.com

