

ELECTRONIC HYGROSTAT

EFL 012 | DC 12 to 48 V



- > Large setting range
- > Small hysteresis
- > Optical operating display (LED)
- > Change-over contact
- > Signal application

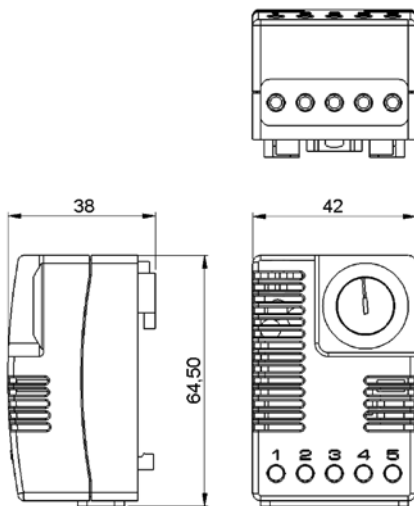
The electronic hygrostat registers the surrounding relative humidity and can switch a signal current via its internal relay with a potential-free change-over contact. Signal-processing devices can be controlled directly with the EFL 012. In order to control heating and cooling equipment, filter fans and signal devices the switch module DCM 010 or a similar device is needed. The LED integrated in the adjustment knob shows the closed status of the contact 1-2. When relative humidity drops contact 1-2 opens and the LED turns off. In currentless state (no supply voltage) contact 1-2 opens.



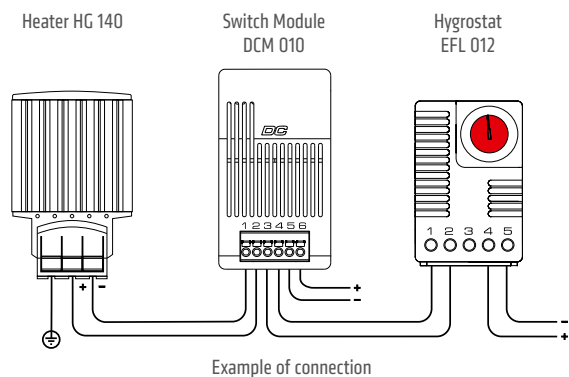
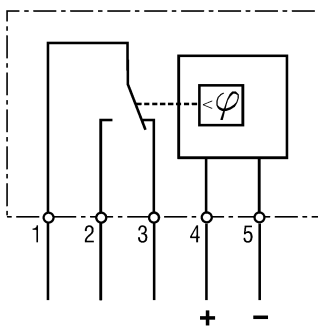
TECHNICAL DATA

Switch difference	5 % RH (±3 % RH tolerance) at +25 °C (+77 °F), 50 % RH
Reaction time	approx. 5 sec.
Contact type	change-over contact (relay)
Service life	>100.000 cycles (at 10 mW)
Max. switching current (relay output)	DC 0.5 A at DC 48 V
Min. switching capacity	DC 10 mW (at 0.1 V, 100 mA or 1 mA, 10 V)
Optical indicator	LED
Connection	5-pole terminal, clamping torque 0.5 Nm max.: rigid wire/stranded wire ¹ 2.5 mm ² (AWG 14)
Mounting	clip for 35 mm DIN rail, EN 60715
Casing	plastic according to UL94 V-0, light grey
Dimensions	64.5 x 42 x 38 mm
Weight	approx. 70 g
Fitting position	vertical
Operating/Storage temperature	0 to +60 °C (+32 to +140 °F) / -20 to +70 °C (-4 to +158 °F)
Operating/Storage humidity	max. 90 % RH (non-condensing)
Protection type	IP20

¹ When connecting with wires, wire end ferrules must be used.



Connection diagram



Art. No.	Operating voltage	Setting range	Approvals
01245.2-00	DC 12 – 48 V (min. DC 10 V, max. DC 60 V)	40 to 90 % RH	UL File No. E164102 EAC