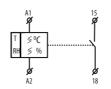


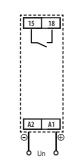
- ! Hygro-thermostat for temperature monitoring and regulation in range 0... +60 °C and relative humidity monitoring and regulation in range 50...90%
- possibility of setting of up to 8 conditions for contact switching and function permanently ON/OFF
- sensor is a part of the device designated for measuring in switchboards
- Function of sensor control (damage, disturbances...)
- fixed setting of temperature hysteresis at 2.5 °C and humidity at 4%
- ! output state is indicated by red LED
- ! supply voltage AC/DC 24-230V
- utput contact 1x changeover 16A/250 V AC1
- ! in 1 module type, mounting onto a DIN rail

Technical parameters	RHT-1		
Function:	hygro-termostat		
Supply terminals:	A1 - A2		
Input:	1VA		
Supply voltage:	24-230V AC / DC		
Tolerance of supply voltage:	-15%; +10%		
Measuring circuit:			
Temperature range:	0+60°C		
Humidity range:	50 90%		
Temperature hysterisis:	2,5 °C		
Humidity hysterisis:	4%		
Sensor: internal	internal		
Indication of sensor's fault:	red LED flashing		
Accuracy:			
Setting accuracy (mechanical):	5%		
Long-term stability of humidity:	typical < 0,8% / year		
Output:			
Number of contacts:	1x NO (AgSnO ₂)		
Rated current:	16A / AC1, 10A / 24V DC		
Switched output:	4000 VA / AC1, 300W / DC		
Switched voltage:	250V AC1 / 24V DC		
Output indication:	red LED shines		
Mechanical life:	3x10 ⁷		
Electrical life:	0.7x10 ⁵		
Other data:			
Operational temperature:	-20+60 °C		
Storing temperature:	nperature: -30+70 °C		
Electrical strengh:	4kV (supply-output)		
Operational position:	vertical, with correct orientation		
Mounting	DIN rail EN 60715		
Protection degree:	IP40 from front panel, IP10 on terminals		
Overvoltage category:	III.		
Pollution degree:	2		
Profile of connecting wires (mm2):	max. 2x2:5, max. 1x4		
	with sleeve max. 1x2.5, max. 2x1.5		
Dimensions:	90x17.6x64mm		
Weight:	70g		
Applicable standards:	EN 60730-2-9, EN 61010-1		
Euncione			

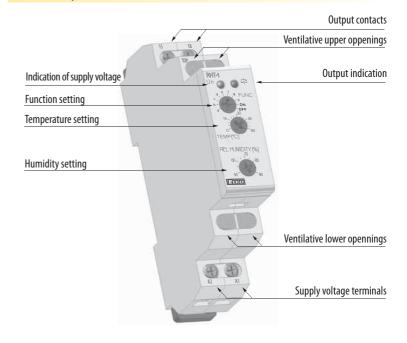
Symbol

Connection





Device description:



Funcions:

Choice of function	Relay switched under the following conditions		
A	T > Tset	OR	RH > RHset
В	T < Tset	OR	RH > RHset
C	T > Tset	OR	RH < RHset
D	T < Tset	OR	RH < RHset
E	T < Tset	A	RH < RHset
F	T > Tset	A	RH < RHset
G	T < Tset	A	RH > RHset
Н	T > Tset	A	RH > RHset
ON		relay permanently ON	
OFF		relay permanently OFF	

Description of function:

This device is designated for monitoring of parameters of environment (meaning temperature and relative humidity) in switchboards.. It enables setting of eight conditions of constact closing and therefore it is usable for various types of load (e-g- fans, heating, air-conditioning, dehydrating units...). While installing it is neccessary to take into account the fact that hysterisis rises by persistence of measured values between sensor and ambient environment. The device is equipped by sensor fault detection. In case of sensor falut, exceeding allowed limits (for temperature -30°C and +80°C; for humidity 5% and 95%) or in case of faulty internal communcation higher than 50% (due to e.g. high ambient disturbances) contact opens and sensor fault i indicated. Sensor fault doesn 't have influence on function permanently ON or pemanently OFF.

Note: In case the conditions for switching are not applied, relay is open