

Specification of item			
Item No. :	516301		
Text:	Hygrostat Sauter Type HSC120 F001		
Approvals:			
Directives:	Note 1 RoHS compatible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Others:
Establ.	04/06/08	Made by:	OIT
Revision code			
Description :			

Enclosures:

Side 1 : frontpage

Side 2-3 : data-sheet

Note 1:

Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. (RoHS)

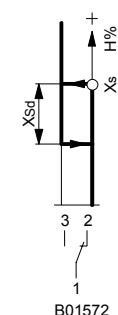
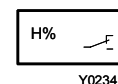
Tolerances:

If no tolerances are indicated on drawings following standard is to be used: DS/EN 22768-1 (DS/ISO 2768-1)

HSC 120: Room humidistat

For regulating the relative humidity in rooms by activating humidifiers or de-humidifiers.

White plastic casing on black thermoplastic baseplate; setpoint adjuster X_S for the upper switching point; fixed switching difference X_{Sd} ; sensing element of stabilised synthetic textile; micro-switch with single-pole change-over contacts; electrical connection (on the F001 and F 010) via screw terminals for wire of max. $2 \times 1.5 \text{ mm}^2$.



Type	Remarks	Cable	Setpoint %rh	Weight kg
HSC 120 F001	External setpoint adjuster	none	30...90	0.090
HSC 120 F010	Internal setpoint adjuster	none	30...90	0.090
HSC 120 F020	With earthed plug for humidification	1.5 m	30...90	0.260
HSC 120 F021	With earthed plug for de-humidification	1.5 m	30...90	0.260

Contact rating min.	5 (3) A, 250 V~ 100 mA, 24 V	Permissible ambient temp. no dew formation	0...40 °C -25...40 °C
Time constant ($v = 0.2 \text{ m/s}$)	approx. 5 min	Degree of protection	IP 20 (EN 60529)
Switching difference	6 %rh	Protection class	II (IEC 60536)
Setting accuracy ¹⁾	$\pm 5 \text{ %rh}$	Wiring diagram	F001/F010 A03377 F020/F021 A05252/A05251
Temperature influence	+0.5 %rh/K	Dimension drawing	M05363
Humidity calibration at	55 %rh, 23 °C	Fitting instructions	F001/F010 MV 505403/505647 F020/F021 MV 505404
Long-term stability	approx. -1.5 %rh/a		

Accessories

0362225 001* Intermediate cover plate for wall mounting onto recessed junction boxes

¹⁾ Dimension drawing or wiring diagram are available under the same number

1) Can be improved by adjusting accordingly when in use.

Operation

When the relative humidity rises and reaches the upper switching point, contacts 1-2 open and 1-3 close. The setpoint X_S corresponds to the upper switching point. The contacts revert to their original position when the humidity has fallen below the upper switching point by the amount of the fixed switching difference (X_{Sd}).

The ageing process of the sensing element causes a gradual and lasting displacement of the switching point, thus possibly necessitating re-adjustment.

When the temperature is different to the calibration temperature, the switching point is systematically shifted (temperature influence).

Similarly, rapid changes in humidity also cause the switching point to be temporarily shifted.

Engineering and installation notes

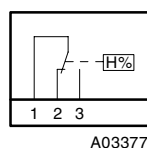
The housing cover provides for the cable to be inserted from the rear when fitted on recessed junction boxes. Break-out apertures are provided at the top and bottom for surface mounting.

Additional technical data

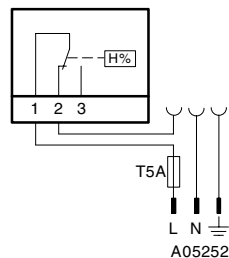
Complies with:-	
Directive 73/23/EEC	EN 60730-1/ EN 60730-2-13
EMC directive 89/336/EEC	EN 61000-6-1/ EN 61000-6-2 EN 61000-6-3/ EN 61000-6-4

Wiring diagrams

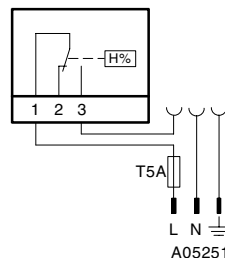
F001, F010



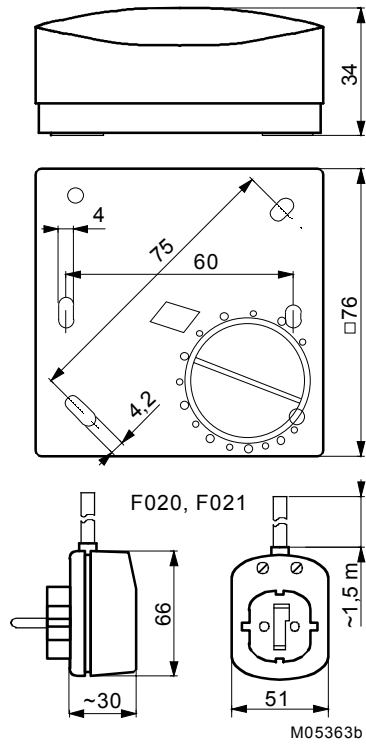
F020 (humidification)



F021 (de-humidification)



Dimension drawing



Accessories

