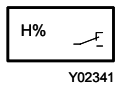
HSC 120: Room humidistat

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 × 1.5 mm².

T06728

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		Permissible ambient temp.		0...40 °C
max	5 (3) A, 250 V~	no dew formation		–25...40 °C
min.	100 mA, 24 V	Degree of protection		IP 20 (EN 60529)
		Protection class		II (IEC 60730)
Time constant (v = 0.2 m/s)	approx. 5 min	Wiring diagram	F001/F010	A03377
Switching difference	6 %rh		F020	A05252
Setting accuracy	± 5 %rh		F021	A05251
Temperature influence	+0.5 %rh/K	Dimension drawing		M05363
Humidity calibration at	55 %rh, 23 °C	Fitting instructions	F001	MV 505403
Long-term stability	approx. –1.5 %rh/a		F010	MV 505647
			F020/F021	MV 505404



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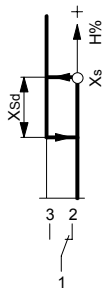

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Accessories

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

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

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

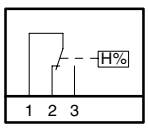
The housing cover provides for the cable to be inserted from the rear when fitted on recessed junction boxes. Break-out apertures are provided at the top and bottom for surface mounting.

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



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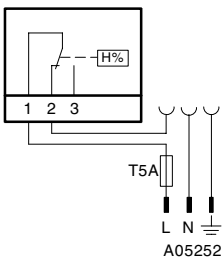
F020 (humidification)



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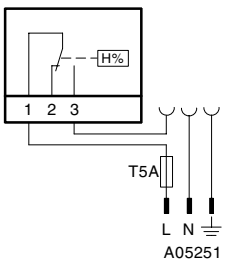
F021 (de-humidification)



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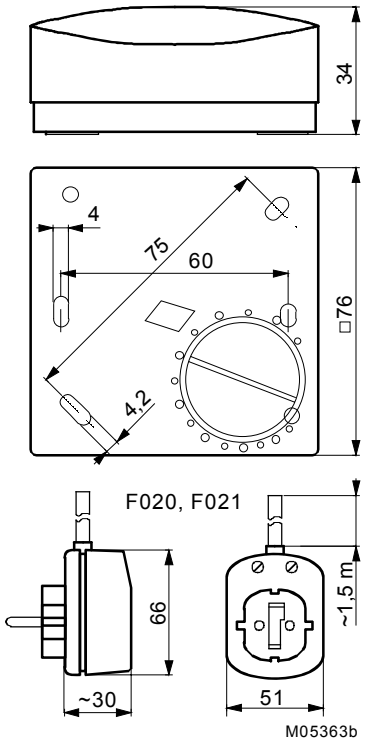
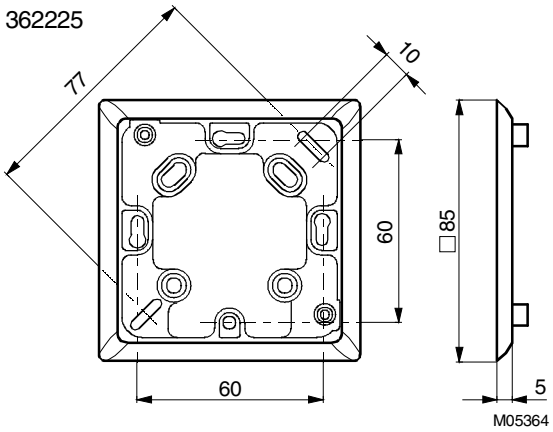
Dimension drawing



Accessories



Printed in Switzerland

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