AXT 111: Thermal drive for unit valves, with stroke indicator

For controllers with switched output (2-point). Used in conjunction with individual-room control systems (TSO, NRT, RDT, *ecos, ecolon*) for activating valves of the VUL, BUL and VXL, BXL series. Suitable for use with adaptors to upgrade existing systems. Position indicator in the drive's housing. Pure white housing (as per RAL 9010) of fire-retardant plastic. Can be changed from 'normally closed' to 'normally open' by removing a special piece. Fitted to valve with thread M30 \times 1,5. Fitting position: vertical to horizontal. White power cable of Ø 0,5 mm² or 0,75 mm², fixed to the housing. Standard version has 1,2 m of cable.

minmmNkgXT 111 F20034,5125closed (open)230 V~0,2XT 111 F20134,5125closed (open)110 V~0,2cluator with bayonet connection0,20,2XT 111 F50234,5125closed (open)24 V~/=0,2cluator with bayonet connection230 V~0,20,2XT 111 F50234,5125closed (open)24 V~/=0,2rives with in-built auxiliary contacts 3 and bayonet connection0,20,2XT 111 F21034,5125closed 230 V~0,2XT 111 F21234,5125closed 24V~/=0,2ower supply230 V~ $\pm 15\%$, 5060 Hzbegree of protectionIP 42 (EN 60529110 V~ $\pm 10\%$, 5060 Hzwith auxiliary contactsIP 44 (EN 60529ower consumption2,5 W3,0 W3 WWWith auxiliary contactsIP 44 (EN 60529ower consumption2,5 W3,0 W3 WDimension drawingF20.M08824ower ang temp.100°C at valve5060 HzWith auxiliary contactsF21.M10083mbient temperature-550 °C6 WWith auxiliary contactsF21.MV 505923mbient temperature-550 °CF50.MV 505923Declaration of materialsMD 55.012/55.01XT 111 F220As F200 (230 V-), but cable is 2 m and weight is 0,25 kgXT 111 F20As F20	Туре		ning ne ¹⁾		Spring pressur		Power	Weight
XT 111 F201 3 4,5 125 closed (open) 110 V~ 0,2 XT 111 F202 3 4,5 125 closed (open) 24 V~/= 0,2 XT 111 F500 3 4,5 125 closed (open) 230 V~ 0,2 XT 111 F502 3 4,5 125 closed (open) 24 V~/= 0,2 virves with in-built auxiliary contacts 3) and bayonet connection XT 111 F210 3 4,5 125 closed 230 V~ 0,2 XT 111 F212 3 4,5 125 closed 24V~/= 0,2 ower supply 230 V - $\pm 15\%$. 5060 Hz Degree of protection IP 42 (EN 60529 ower consumption 230 V 110 V 24 V 24 V-/= 0,2 ower consumption 230 V 110 V 24 V 24 V IP 44 (EN 60529 on starting 36 W 25 W 6 W With auxiliary contacts A10006 Dimension drawing F20. M08924 With auxiliary contacts F20. M08925 on starting 36 W 25 W 6 W W With auxiliary contacts					•	•		kg
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$\begin{array}{c} 110 \ V_{-} \pm 10\%, \ 5060 \ Hz \\ 24 \ V_{-/} \pm 20\%, \ 5060 \ Hz \\ 24 \ V_{-/} \pm 20\%, \ 5060 \ Hz \\ 24 \ V_{-/} \pm 20\%, \ 5060 \ Hz \\ 230 \ V \ 110 \ V \ 24 \ V \\ in operation \\ on starting \\ 36 \ W \ 25 \ W \ 3,0 \ W \ 3 \ W \\ start-up current \\ 150 \ mA \ 220 \ mA \ 250 \ mA \\ start-up current \\ 150 \ mA \ 220 \ mA \ 250 \ mA \\ start-up current \\ 150 \ mA \ 220 \ mA \ 250 \ mA \\ resultance between the measure \\ -550 \ ^{\circ}C \\ mbient \ temperature \\ -550 \ ^{\circ}C \\ mbient \ 100^{\circ}C \ at \ valve \\ mbient \ buildiary \ contacts \\ F21. \ MV \ 505822 \\ F50. \ MV \ 505923 \\ Declaration \ of \ materials \\ MD \ 55.012/55.01 \\ MD \ 5$	AXI III F21	2	3	4,5	125	ciosed	24V~/=	0,2
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Iax. operating temp. $100^{\circ}C$ at valve $-550^{\circ}C$ -5	start-up curre	ent	150 m	A 220 mA	250 mA		F50.	M10414
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EXV 006Electric distributor for control signals; see Section 55371235 001Adaptor for fitting onto Oventrop valves (M30 × 1)371245 001Adaptor for fitting to Danfoss valves of type RA 2000 (e.g. RA-N, Ø 22 mm)371356 001Adaptor for fitting to Beulco or Tobler underfloor-heating distributors (M30 × 1)371357 001Adaptor for fitting to Danfoss valves of type R450, R452, R456 and 60 series371357 001Adaptor for fitting to Danfoss valves of type RAVL (Ø 26 mm)371360 001Adaptor for fitting to Danfoss valves of type RAV (Ø 34 mm)371361 001Adaptor for fitting to Herz valves of type Herz-TS'90 (M28 × 1,5)371363 001Adaptor for fitting to Markaryd valves (Swedish product) (M28 × 1,5)371540 001*Protective housing ²), against vandalism and theft for VUL, VXL and BUL valves. Not for F210; F212 and not for VXL015F500; VXL020F500 and BXL valves; MV 505656371557 001*Auxiliary contacts; 5(2) A; 230 V; can be fitted later as per MV 505632 for the 'NC/NO'	Accessories FXV 006 0371235 001 0371245 001 0371356 001 0371357 001 0371359 001 0371360 001 0371361 001 0371363 001 0371916 001 0371557 001*	Electric of Adaptor i Adaptor i Adaptor i Adaptor i Adaptor i Adaptor i Adaptor i Adaptor i Adaptor i Protective F210; F2 Auxiliary	for fitting for fitting for fitting for fitting for fitting for fitting for fitting for fitting for fitting and i 2 and i contacts	g onto Ove g to Danfos g to Beulco to Giacom g to Danfos g to Danfos g to Herz vi g to Herz vi g to Markai g to Markai g to Markai g to YXL0 s; 5(2) A; 25	ntrop valve ss valves of o or <i>Tobler</i> of <i>ini</i> valves o ss valves of alves of typ <i>Anderssor</i> ryd valves (t vandalism 015F500; V. 30 V; can be	s (M30 × 1) type RA 2000 (e.g. R underfloor-heating dist f type R450, R452, R4 type RAVL (Ø 26 mm type RAV (Ø 34 mm)) the Herz-TS'90 (M28 × valves of type TA/RV Swedish product) (M2 and theft for VUL, VXL XL020F500 and BXL vi e fitted later as per MV	tributors (M30 56 and 60 seri 1) 1,5) /T (M28 × 1,5) 28 × 1,5) - and BUL valv alves; MV 505	× 1) es es. Not for 656
371557 001* Auxiliary contacts; 5(2) A; 230 V; can be fitted later as per MV 505632 for the 'NC/N function; cut-in point 1,5 mm stroke ± 0,75 mm Dimension drawing or wiring diagram are available under the same number	0371557 001*		cut-in p				505632 for the	e 'NC/N

1) For 3 mm stroke when starting from cold

2) Also suitable for combinations with MNG or Heimeier valves or valves with a connection thread of M30 × 1,5

3) Auxiliary contacts 5(2) A, 230 V; cut-in point 1,5 mm, stroke \pm 0,75 mm













Operation

The actuator has an electrically heated, overrun-proof expansion element which transfers its stroke direct to the valve. It works silently and requires no maintenance.

When the heating element is switched on from cold, the valve (after a warming-up time of about 1,3 minutes) starts to open and has performed 3 mm of stroke after approx. 1,7 minutes. The closing operation is symmetrical (with regard to time) to the opening operation: the expansion element cools down and the valve is closed by spring pressure. The drive's direction of operation can be changed by removing a special piece and then turning a screw.

'Normally closed' (factory setting):-

- Drive has power applied: valve with pushing plug (as types VUL, VXL, BUL), from closed to open.
- Drive has power applied: valve with hanging plug (as type BXL), from open to closed.

'Normally open' (piece removed):-

- Drive has power applied: valve with pushing plug (as type VUL, VXL, BUL), from open to closed.
- Drive has power applied: valve with hanging plug (as type BXL), from closed to open.

With a 'pulse-pause' clock signal, which effects a periodic open/close position, a quasi-continuous control system can be achieved with a cycle duration of 4 minutes. Permissible cycle duration: either < 4 min or > 12 min. Using the auxiliary contacts (which are available as an accessory and can be fitted later), a circulation pump or a heat counter, for instance, can be switched on.

The auxiliary contacts switch between 35% and 50% stroke. The rating for these auxiliary contacts is 3 A for ohmic load and 2 A for inductive load. The contacts close when the stroke reaches 35% or 50%.

Engineering and fitting notes

Before choosing the switching contacts and the mains fuses, the inrush current of the heating element should be taken into account. To ensure that the given running time can be achieved, the voltage loss in the electric cables should not exceed 10%.

The way to change from 'normally closed' to 'normally open' is described in MV 505511. The position indicator shows which function has been set. When the red indicator is inserted in a black plastic piece, the 'normally closed' function is activated. When the red indicator is inserted in a white plastic piece, the 'normally open' setting is active.

On the 'normally closed' standard version, the valve can, in the event of a power failure, be opened by removing the drive. No tools should be used to fit the actuator to the valve: turning by hand is quite sufficient.

Fitting outdoors. If the devices are fitted outdoors, we recommend that additional measures be taken to protect them against the effects of the weather.

Standards and regulations

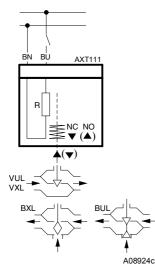
The actuator is tested to the requisite standards and complies with the relevant EU regulations.

Additional technical data

Rating of auxiliary switch when used with direct current: 4...30 V, 1...100 mA

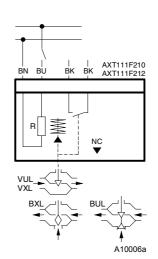
AXT 111 F200 Complies with:-		AXT 111 F202 Complies with:-	
Directive 2006/95/EC	EN 60730-1/ EN 60730-2-14	EMC directive 2004/108/EC	EN 61000-6-1/ EN 61000-6-2
EMC directive 2004/108/EC	EN 61000-6-1/ EN 61000-6-2 EN 61000-6-3/ EN 61000-6-4		EN 61000-6-3/ EN 61000-6-4

Wiring diagram





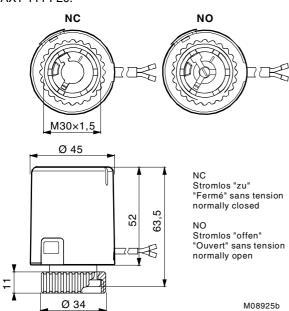
BN = brown BU = blue BK = black RD = red WH = white



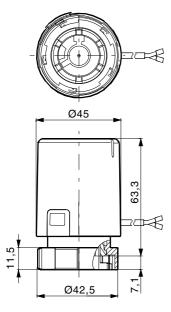


Dimension drawing





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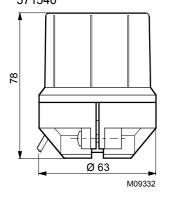


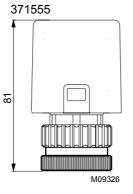


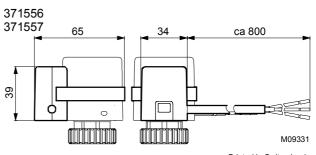
M10414

Accessories

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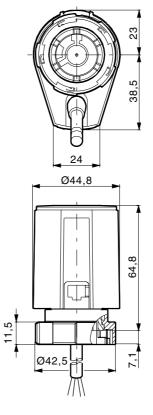


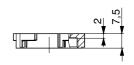


Sauter Components

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