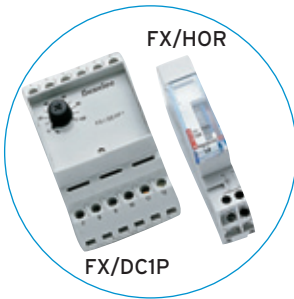




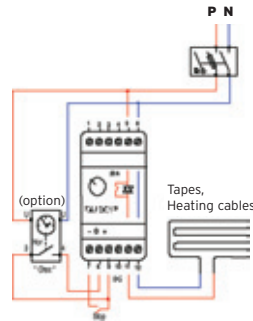
FX/DC1P Power modulators

Characteristics

- Principle: Analogue chrono-proportional.
- Setting: Percentage 0 to 100 %.
- Time base: 30 seconds fixed.
- Power supply: 230 V ± 10 %.
- Output: 230 V, 20 A maximum.
- Dimensions: 87 x 55 x 55 mm.
- Fits to DIN rail.



Schematic diagram



Applications

The FX/DC1P power modulator is used to adjust the power of an installation to the real need. It is particularly suited for heating cables used in hot water networks.

Operation

The power can be set from 0 to 100 %. Power is modified by limiting the power supply time to the cable in a 30 second cycle. Two controls are used to force the cycle to 100 % (impulse) or to 0 % (stop). For hot water, the sterilise function can be obtained with an external timer (option).

FX/BOITIER option

The power modulator can be fitted in an IP 54 box (195 x 115 x 110 mm).

External timer option FX/HOR

- Weekly programme
- Programming in 2 h segments
- Output: 16 A rated contact
- Vertical analogue face
- Power reserve 100 h
- Dimensions: 1 x 17.5 mm module

Setting the modulator according to the power required

Use the FSH/TP 30 self-adjusting heating tape. The tables below give heat losses in W/m, and the modulator setting (the figure in brackets) for straight heat tracing along the piping. This setting is given as a guide only and must be adjusted according to the results obtained. For the sterilise function, please consult us.

Vertical risers Ambient temperature: 15°C Insulation 0.042 W/m.°C

Nominal diameter Ext. diameter (mm)	1/2" 21	3/4" 27	1" 34	1 1/4" 42	1 1/2" 48	2" 60	2 1/2" 76	3" 89
Thermal lagging th. mm	Maintenance temperature 45°C							
9	14.07 (70)	17.05 (85)						
13	10.81 (55)	12.91 (65)	15.33 (80)	18.07 (90)				
19	8.43 (45)	9.91 (50)	11.61 (60)	13.52 (70)	14.93 (75)	17.75 (90)		
32	6.23 (30)	7.17 (35)	8.23 (40)	9.41 (50)	10.28 (50)	12.00 (60)	14.25 (70)	16.07 (80)
	Maintenance temperature 50°C							
9	16.41 (90)							
13	12.61 (70)	15.06 (80)						
19	9.84 (55)	11.56 (65)	13.54 (75)	15.77 (85)				
32	7.27 (40)	8.36 (45)	9.60 (50)	10.97 (60)	11.99 (65)	14.00 (75)	16.63 (90)	
	Maintenance temperature 55°C							
9								
13	14.41 (85)							
19	11.24 (65)	13.22 (80)	15.48 (90)					
32	8.30 (50)	9.56 (55)	10.97 (65)	12.54 (75)	13.70 (80)	15.99 (95)		

Basement Area Ambient temperature: 5°C Insulation 0.036 W/mK

Nominal diameter Ext. diameter (mm)	1/2" 21	3/4" 27	1" 34	1 1/4" 42	1 1/2" 48	2" 60	2 1/2" 76	3" 89
Thermal lagging th. mm	Maintenance temperature 45°C							
25	8.17 (40)	9.50 (50)	11.00 (55)	12.69 (65)	13.94 (70)	16.42 (80)		
30	7.37 (35)	8.51 (45)	9.79 (50)	11.22 (55)	12.27 (60)	14.36 (70)	17.10 (85)	
40	6.34 (30)	7.23 (35)	8.23 (40)	9.33 (45)	10.15 (50)	11.75 (60)	13.84 (70)	15.52 (80)
50	5.68 (30)	6.43 (35)	7.26 (35)	8.17 (40)	8.84 (45)	10.15 (50)	11.85 (60)	13.22 (65)
	Maintenance temperature 50°C							
25	9.19 (50)	10.68 (60)	12.38 (70)	14.28 (80)	15.69 (85)			
30	8.29 (45)	9.57 (50)	11.01 (60)	12.62 (70)	13.81 (75)	16.15 (90)		
40	7.13 (40)	8.13 (45)	9.25 (50)	10.50 (60)	11.42 (60)	13.21 (70)	15.57 (85)	
50	6.39 (35)	7.23 (40)	8.16 (45)	9.19 (50)	9.94 (55)	11.42 (60)	13.33 (75)	14.87 (80)

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