

## Digital time switch modules

- Easy programming (Menu-led or text programming)
- Running reserve 10 years
- Daily and weekly program
- Compatible fitting with mechanical time switch modules FM
- Only for fitted mounting

### Applications

- Appliances control
- Gas boilers control
- Devices, motors and pumps controls

Product image	Voltage	EAN-Code 4010940	Ord.-No.	Icon		
	<b>FMD 120</b>					
	230 V/50-60 Hz	037949	03.58.0017.1			
	<b>FMD 220</b>					
	230 V/50-60 Hz	037963	03.58.0019.1			
<b>FMD 120, FMD 220</b>						
						
– Menu-led programming with flexible and fixed programs – Further voltage types on request						
	<b>FMD 150</b>					
	230 V/50-60 Hz	037604	03.60.0001.1			
	<b>FMD 250</b>					
	230 V/50-60 Hz	037994	03.60.0013.1			
<b>FMD 150, FMD 250</b>						
						
– Text programming – Further voltage types on request						
	<b>EMD 120</b>					
	3,4-6 V DC	039424	03.85.0003.1			
						
						
– Battery type CR2032						
Accessories see page 58						

# Technical Data

	FMD 120	FMD 220	FMD 150	FMD 250	EMD 120
	Relais		Relais		
Dimensions H x W x D (mm)	60 x 60 x 32		60 x 60 x 32		51 x 64 x 15,7
Cut out (mm)	Ø 64		Ø 64		47 x 60
Fitting depth (mm)	21		21		12
Weight (g) approx.	90		90		22
Nominal voltage	230 V AC/50-60 Hz		230 V AC/50-60 Hz		3,4-6 V DC
Power consumption	4,4 VA		4,4 VA		–
Current consumption without load	0,015 mA		0,015 mA		0,015 mA at 3,4 V DC
Current output – Relay	1 CO	2 NO	1 CO	2 NO	CMOS
	potential-free		potential-free		–
Switching current AC					
– Resistive load (VDE, IEC)	16 A /250 V AC	5 A /250 V AC	16 A /250 V AC	5 A /250 V AC	–
– Resistive load (UL)	16 A /250 V AC	–	16 A /250 V AC	–	–
– Inductive load cos. φ 0,6	4 A /250 V AC	1 A /250 V AC	8 A /250 V AC	1 A /250 V AC	–
– Incandescent lamp load	1000 W	–	1000 W	–	–
Switching current DC	10 A/24 V DC 3 A/60 V DC 1 A/100 V DC	2 A/24 V DC 0,3 A/60 V DC 0,1 A/100 V DC	10 A/24 V DC 3 A/60 V DC 1 A/100 V DC	2 A/24 V DC 0,3 A/60 V DC 0,1 A/100 V DC	0,1 mA at 3,4 V DC – –
Minimum switching current AC	100 mA / 20 V AC		100 mA / 20 V AC		–
Minimum switching current DC	100 mA / 20 V DC		100 mA / 20 V DC		–
Battery backup *)	10 years from factory at 20°C		10 years from factory at 20°C		10 years from factory at 20°C
Operation accuracy	type ±1 s/day at 20°C		type ±1 s/day at 20°C		type ±1 s/day at 20°C
Ambient temperature **)	–10°C ... +55°C		–10°C ... +55°C		–10°C ... +55°C
Shortest switching time	1 min		1 min		1 min
Shortest switching interval	1 min		1 min		1 min
Number of channels	1	2	1	2	1
Memory spaces	20		50		20
Override	yes		yes		yes
Display of output status	yes		yes		yes
Switch-over to daylight saving time	button ±1 h		button ±1 h		button ±1 h
Type of connection	DIN blade terminal 6.3 mm ***)		DIN blade terminal 6.3 mm ***)		4-pole flat cable
According to	EN 60730-1 EN 60730-2-7		EN 60730-1 EN 60730-2-7		EN 60730-1 EN 60730-2-7

\*) non rechargeable

\*\*) -25°C at limited display function

\*\*\*) Further types of connection on request

Dimensional drawings/  
circuit diagrams:

