Movements for self-setting indoor and outdoor clocks
SAM/SEM 100

The SAM/SEM 100 is a modern high-quality movement for precise time display (SAM 100(t): h/min; SEM 100(t): h/min/s).

Two powerful motors move hands for clocks up to Ø 100 cm.

The SAM/SEM 100 movements can be controlled using MOBA-Line or DCF active time code.

Your advantages:

- compact design
- movement of the minute and second hand configurable
- simple cabling
- minimal shadow casting due to round housing
- fast regulating and set-up times
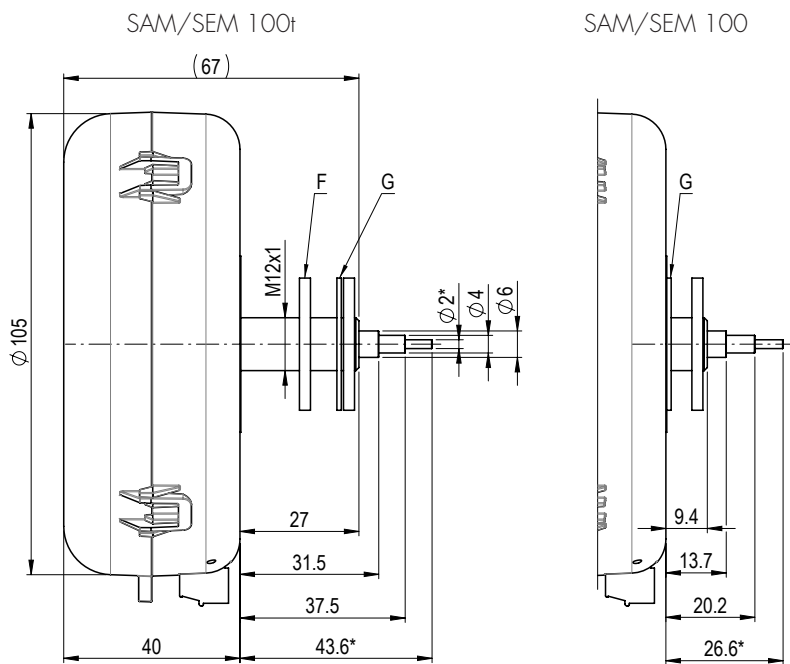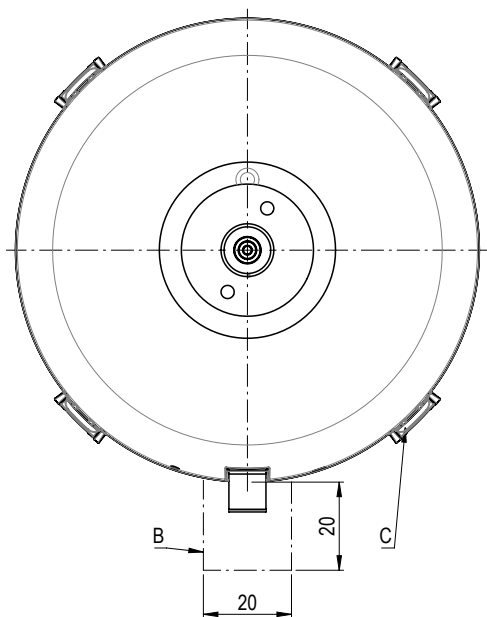- ideal for combination with Clock Controller

MOBA *TIME*

SAM / SEM 100(t) - Technical details
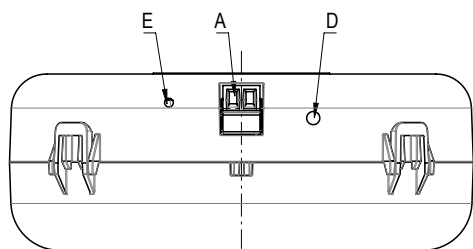
A   MOBALine connector
B   required space for connector
C   housing clips
D   push-button
E   LED

F   Disc nut for mounting
G   rubber washer

*Second shaft only for SEM 100(t)

SAM/SEM 100t

SAM/SEM 100

(67)

M12x1

∅ 105

∅ 2*
∅ 4
∅ 6

27
31.5
37.5
40   43.6*

9.4
13.7
20.2
26.6*

20
20

all dimensions in mm

Technical data	SAM 100(t)	SEM 100(t)
Dial diameter	up to 1000 mm	
Synchronization	- MOBALine (local time) (ETC, DTS, NMI, Clock Controller…) - DCF active bipolar	
Power supply	MOBALine or DCF active	
Consumption (at >14VAC)	< 20 mA	< 30 mA
Operation hour hand	continuous	
Operation minute hand	Minute, ½ minute or continuous (10 sec.) setting via MOBALine	
Operation second hand	-	Step, cont. with/without stop, wobbling with stop setting via MOBALine* or push-button *not supported by all master clocks
Adjustment time	Initiation: <3 min. Daylight saving time change: <2 min.	
Temperature range	-30 … +70 °C	
Weight	210 g	250 g
Second shaft torque	-	>60 mNm
Minute shaft torque	>20 mNm	
Hour shaft torque	>20 mNm	
Hand weight	typically 70 g, max. 140 g (well-balanced)	

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