

# ANALOGUE TIME SWITCHES

müller FS 6x.x8 - paladin 16x x20



## Overview

- Daily / Weekly program
- Dimensions 72 x 72 mm
- Captive setting keys
- Manual override switch Permanent-ON / Permanent-OFF / Automatic
- Analogue display (clock display)

## Intended use

- The device fits for the particular use of the following tasks: Illumination of private and industrial areas, street and shop-window lightening, regulation of air conditioning, flushing, motors, pumps, plants and machinery as well as to simulate presence etc.
- Operate the device in a dry room only!
- The installation must be in accordance with the instruction manual.
- The device is not qualified for security relevant tasks such as emergency doors, fire protection equipment.

## Supply voltage versions

- 230 V, 50-60 Hz
- 115 V, 50-60 Hz
- 12-24 V DC & 24-48 V, 50-60 Hz

## Order numbers

■ müller	■ paladin	
FS 60.18	161 120	Day without reserve
FS 64.18	164 120	Day with reserve
FS 60.38	161 420	Week without reserve
FS 64.38	164 420	Week with reserve

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## Order information

	Voltage	EAN	Art. No.
<b>FS 60.18</b>	230 V 50-60 Hz	4022709218407	21840
<b>FS 64.18</b>	230 V 50-60 Hz	4022709218445	21844
<b>FS 60.38</b>	230 V 50-60 Hz	4022709221223	22122
<b>FS 64.38</b>	230 V 50-60 Hz	4022709218605	21860
<b>161 120</b>	230 V 50-60 Hz	4011732005467	00546
<b>164 120</b>	230 V 50-60 Hz	4011732006143	00614
<b>161 420</b>	230 V 50-60 Hz	4011732005733	00573
<b>164 420</b>	230 V 50-60 Hz	4011732006518	00651

Other supply voltage versions on request

## Technical data

Supply voltages	230 V, 50-60 Hz
Power consumption (real power)	0,4 W
Switch (potential-free)	Change-over, contact gap < 3mm ( $\mu$ )
Manual override switch	Permanent ON / Permanent OFF / AUTO
Contact material	AgSnO <sub>2</sub>
Switching capacity per channel	
resistive load:	16 A / 250 V~ at $\cos\phi=1$
inductive load:	2,5 A / 250 V~ at $\cos\phi=0,6$
Min. switching power	1.000 mW (10 V / 10 mA)
Filament Lamp, Halogen Lamp	2.000 W
Fluorescent Lamp uncompensated	1.000 W
Fluorescent Lamp series compensated	750 W
LED (230 V~) / CFL	200 W
Minimum switching interval	
day dial:	15 min.
week dial:	1 h.
Time base	Quartz
Accuracy (at 23 °C)	$\leq \pm 1$ sec./day
Power back-up (at 20 °C)	ca. 100 h.
Permitted ambient temperature	-5...+50 °C
Housing	self-extinguishing thermoplastic
Dimensions	Front frame 72 x 72 mm (DIN EN 43700)
Mounting	switchboard panel
	surface mounting
	35 mm DIN-rail (with additional quick-fix retaining clip 120 004)
Type of connection	6.3 mm flat plug or with screw clip when using plug-in base
Type of protection	IP 20 to DIN EN 60529
Class of protection	II when installed according to regulations
Accessories (not included in delivery)	Adapter for DIN-rail mounting 120 004 Clamp for switchband mounting 160001

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