



EE181

# **IP20**

## Astronomical Time switch, 2 Channels

## **Technical properties**

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## Configuration

Switch mode	2 x change-over contact
Number of modules	2

#### **Controls and indicators**

Function of the pushbutton	yes
Indication / display	LC display with illumination

#### Main electrical features

Frequency	50/60 Hz
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## Voltage

Operating voltage	230 V~ +/- 15%
operating voltage	230 1 1/ 13/0

#### **Electric current**

Acceptable current rating with AC1	16 A
Max. power with cos phi 0.6	10 A
Switching current at $\cos \omega = 0.6$	max. 10 A

## Dimensions

Depth of installed product	64 mm
Height of installed product	85 mm
Length	35 mm
Width of installed product	3.5 mm
Width of rail mounted device (RMD)	2 modules

#### Frequency

Frequency range	5060 Hz
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#### Power

Max. power with fluo uncompensated lamps	1000 VA
Power consumed	6 VA
Incandescent bulb power	0 / 2300 W
Total power loss under IN	2 W
Loss power at full load	≈ 2 W
Power dissipation per coil	0.3 W

Max. Breaking capacity for parallel compensated fluorescent tubes	400 V
Max. Breaking capacity for row- compensated fluorescent tubes	1000 V
Measurement	
Running accuracy	± 1.5 s/da
Battery	
Power reserve [years]	≈ 5
Battery / storage battery	with lithium battery type: LS1425
Power supply	
Supply voltage	230
Fluorescent bulbs control	
Fluorescent lamps	max. 1000 V
Max. power with fluorescent parallel lamps	400 V
Max. power fluo. duo lamp comp. series	1000 V
Fluorescent lamps parallel compensated	400 V
Incandescent bulbs control	
Max. power with incandescent lamps	2300 \
230 V incandescent lamps and halogen lamps	max. 2300 \
Installation, mounting	
Mounting type	din-Ra
Installation mode	for mounting on DIN ra
Installation mode  Connection	for mounting on DIN ra
Connection	1,5 / 10mm
Connection Connection cross-sect. flexible conductor	1,5 / 10mm 1 / 6mm
Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable	1,5 / 10mm 1 / 6mm 16 mm
Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable  Conductor cross-section (flexible)	1,5 / 10mm 1 / 6mm 16 mm
Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable  Conductor cross-section (flexible)  Conductor cross-section (rigid)	1,5 / 10mm 1 / 6mm 16 mm
Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable  Conductor cross-section (flexible)  Conductor cross-section (rigid)  Number of contacts	1,5 / 10mm 1 / 6mm 16 mm 16 mm
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Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable  Conductor cross-section (flexible)  Conductor cross-section (rigid)  Number of contacts  Type of connection  Settings	1,5 / 10mm 1 / 6mm 16 mm 16 mm 2 changeovers contacts floatin with screw terminal
Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable  Conductor cross-section (flexible)  Conductor cross-section (rigid)  Number of contacts  Type of contacts  Type of connection  Settings  Number of program steps	1,5 / 10mm 1 / 6mm 16 mm 16 mm 2 changeovers contacts floatin with screw terminal
Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable  Conductor cross-section (flexible)  Conductor cross-section (rigid)  Number of contacts  Type of contacts  Type of connection  Settings  Number of program steps  Summer / Winter time change	1,5 / 10mm 1 / 6mm 16 mm 16 mm 2 changeovers contacts floatin with screw terminal 5 automati 1 m
Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable  Conductor cross-section (flexible)  Conductor cross-section (rigid)  Number of contacts  Type of contacts  Type of connection  Settings  Number of program steps  Summer / Winter time change  Shortest switching time	1,5 / 10mm  1 / 6mm  16 mm  16 mm  2 changeovers contacts floatin with screw terminal  5  automati 1 m  Programming possible without mains voltage
Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable  Conductor cross-section (flexible)  Conductor cross-section (rigid)  Number of contacts  Type of contacts  Type of connection  Settings  Number of program steps  Summer / Winter time change  Shortest switching time  Programming	1,5 / 10mm  1 / 6mm  16 mm  16 mm  2 changeovers contacts floatin with screw terminal  5  automati 1 m  Programming possible without mains voltag
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Connection  Connection cross-sect. flexible conductor  Connection cross-sect. rigid cable  Conductor cross-section (flexible)  Conductor cross-section (rigid)  Number of contacts  Type of contacts  Type of connection  Settings  Number of program steps  Summer / Winter time change  Shortest switching time  Programming  Astro program  Time	for mounting on DIN ra  1,5 / 10mm  1 / 6mm  16 mm  2 changeovers contacts floatin with screw terminal  5 automati 1 m  Programming possible without mains voltag  Ye with automatic summer/winter time change-over

Supply failure reserve	5 years
With cyclic program	Yes
With holidays program	No
With random program	No
Use	
Cycle	weekly
Safety	
Key	with programming key
Use conditions	
Operating temperature	-1055 °C
Working accuracy	± 1,5 s / 24H
Storage/transport temperature	-2060 °C
Identification	
Main design line	Light control