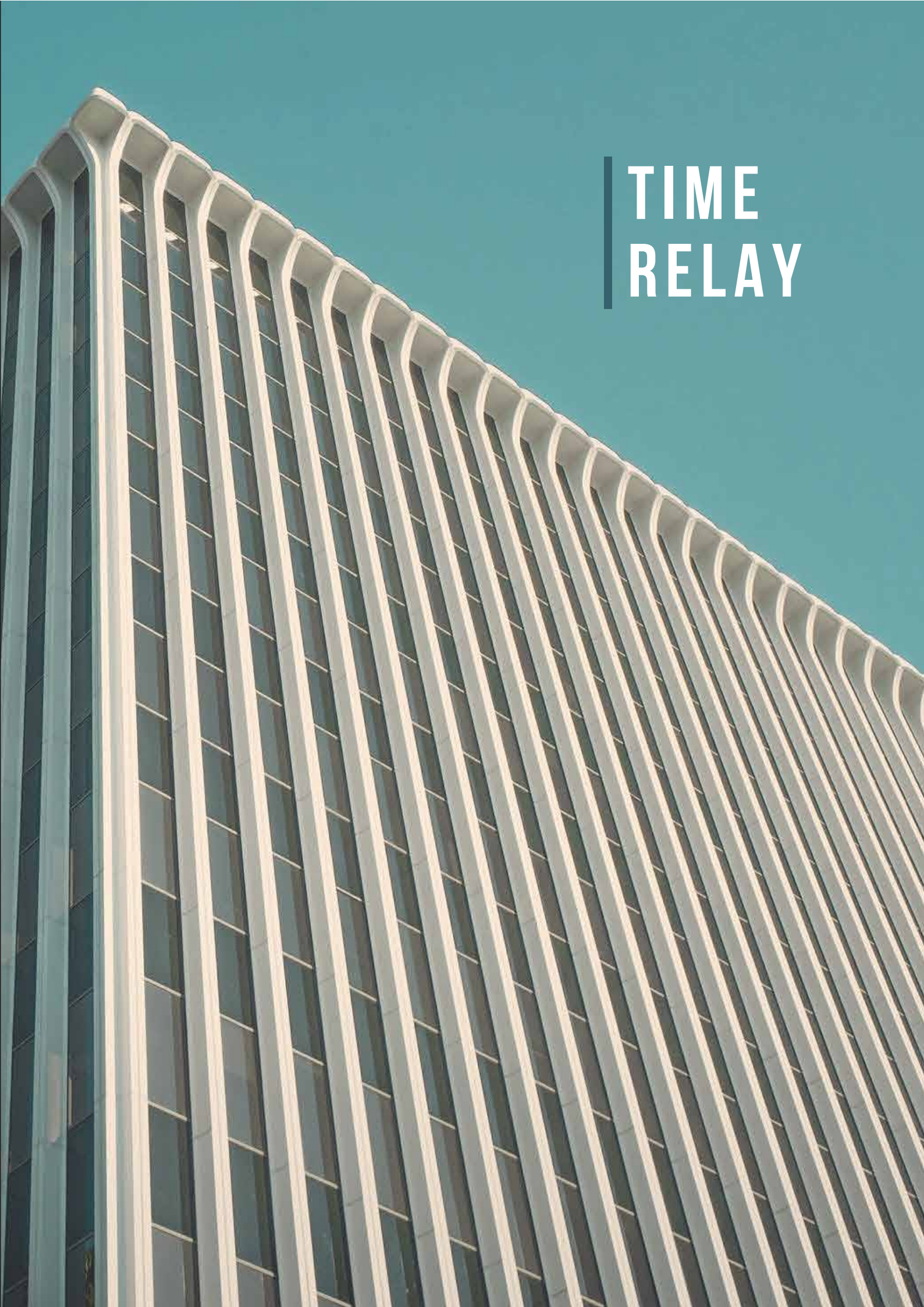
smartcontroller

Electrical Excellence

PRODUCT CATALOGUE



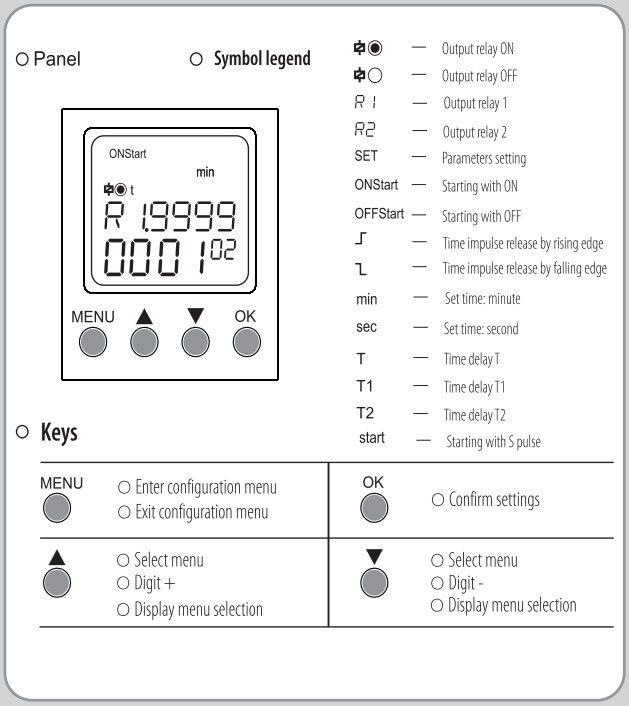
TIME RELAY

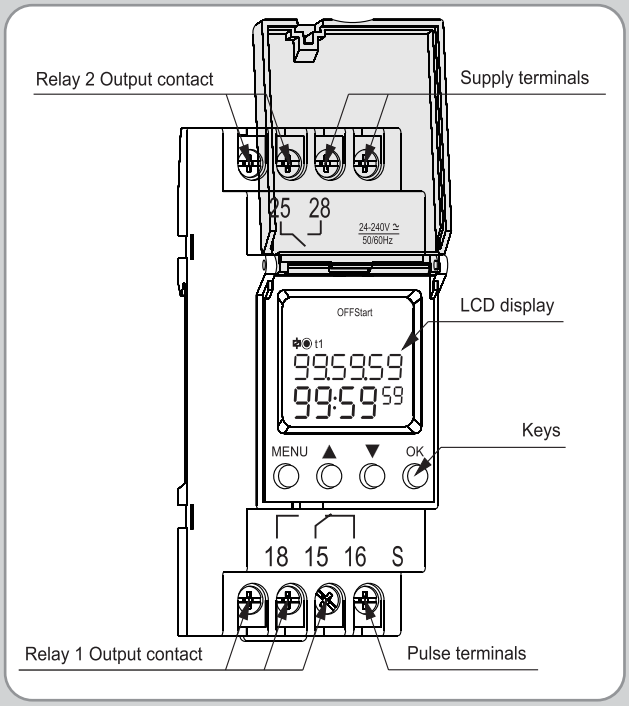
MULTI-FUNCTION TIME RELAY

Model No: SMART-MTR 150

- Microcontroller Based
- 24 Operating Modes
- LCD Display Operating Modes,
- Set Delay and Operating Time.
- Time Range: 0-9999s, 0-9999s Min.
- AC/DC 24-240V Support Voltage
- 2 Independent No Contacts,
- Controlled by Different Operating Mode.
- Backlighted LCD Display.
- Easy Setting by Key.
- 2 Module Din Rail Mounting

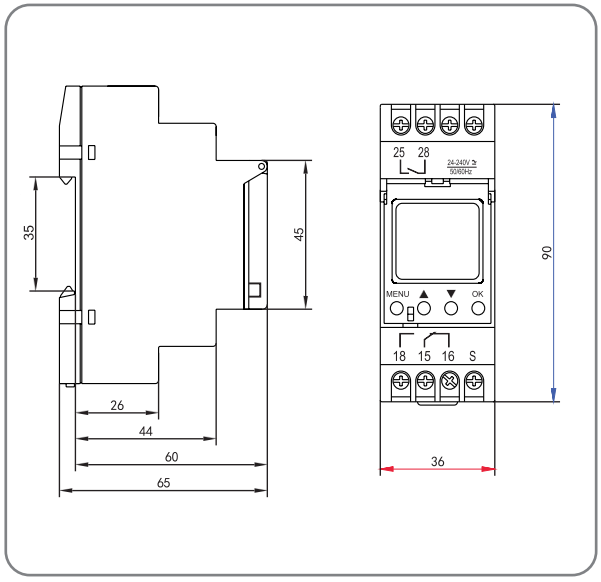
DIMENSIONS



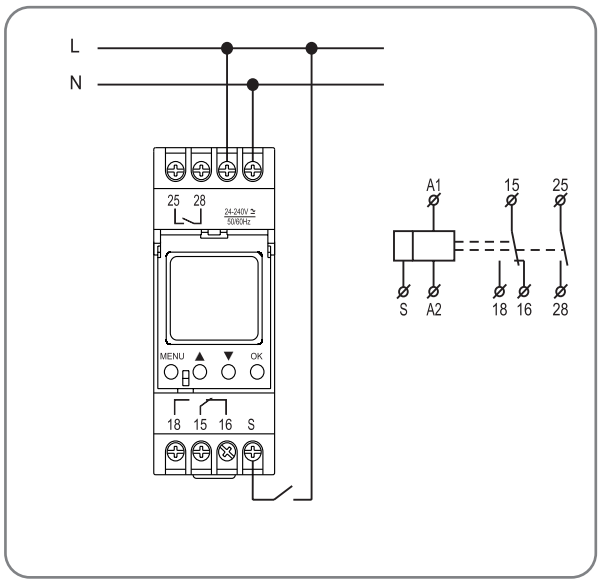


SPECIFICATION	
Supply Terminals	A1,A2
Pulse Terminal	S
Supply Voltage	AC/DC 24-240V
Rated Frequency	50/60Hz
Time Range	0～9999s, 0～9999min
Repetition Accuracy	max.±3s/24h 25 °C
Data Readout	Back-lighted LCD display
Data Storage	10 years
Outpu Contacts	1 C/O +1 NO
Current Rating	8A/ AC1
Contacts Capacting	AC-15:2A
Insulation Valtage	250V
Protection Degree	IP20
Pollution Degree	3
Electrical Life	10^{5}
Mechanical Lifa	10^{6}
Altitude	≤2000m
Ambient Temperatuer	-5°C～+40°C
Storge Tempuerature	-10°C～+50°C
Wire Size	0.5mm²～1mm²
Torque	0.5Nm
Mounting	TH-35 DIN-Rail

DIMENSIONS



WIRING DIAGRAM

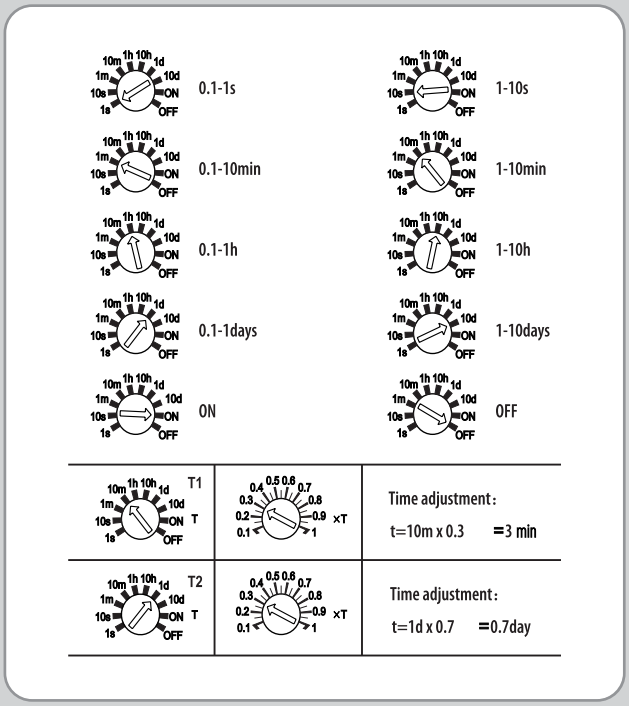


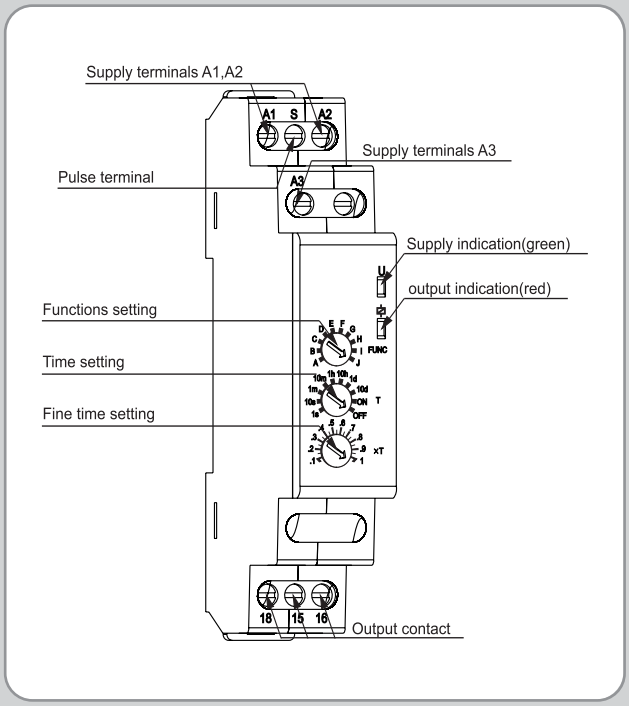
MULTI-FUNCTION TIME RELAY

Model No: SMART-MTR 151

- Microcontroller Based
- 10 Operating Modes
- Modular Design 18mm Wide Housing
- 10 Time Range (1s, 10s, 1m, 10m, 10h, 1d, 10d, On, Off)
- 1 Change Over Contact
- LED Indication for Power Supply and Relay Status.
- Din-Rail Mounting.

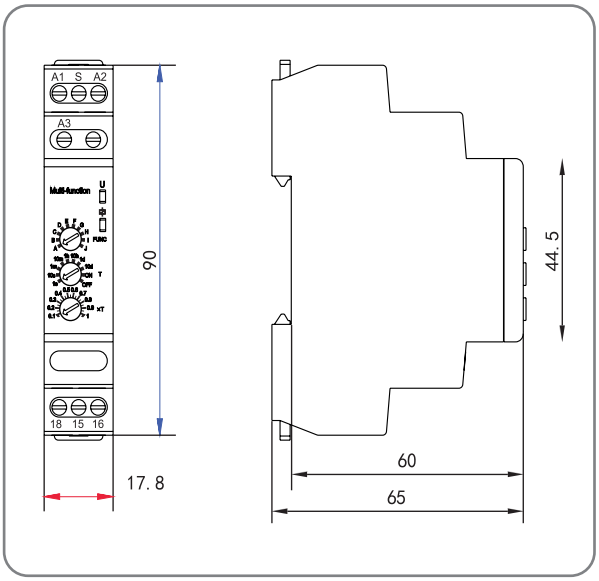
DIMENSIONS



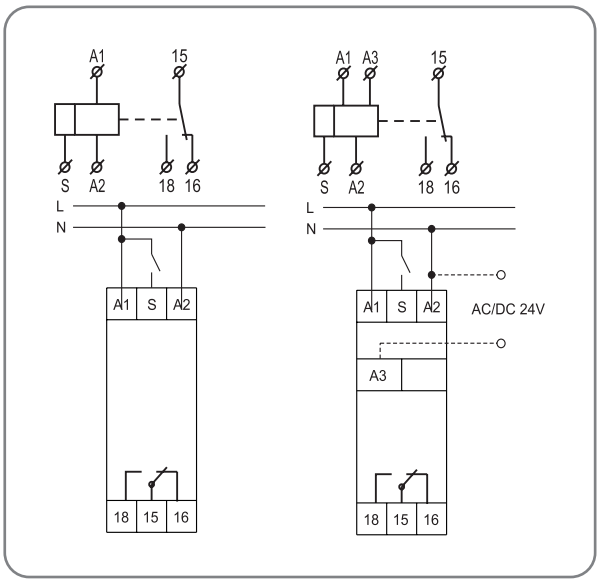


SPECIFICATION		
Supply Terminals	A1,A2	A1,A2,A3
Pulse Terminal	S	
Supply Voltage	AC 220V	A1-A2: AC 220V A3-A2: AC/DC 24V
Rated Frequency	50/60Hz	
Time Range	0.1s-10days	
Repetition Accuracy	<5%	
Data Readout	<0.2%	
Data Storage	1 C/O	
Outpu Contacts	8A /AC1	
Current Rating	AC-15: 2A	
Contacts Capacting	250V	
Insulation Valtage	IP20	
Protection Degree	3	
Pollution Degree	10^{5}	
Electrical Life	10^{6}	
Altitude	≤2000m	
Ambient Temperatuer	−5°C~+40°C	
Storge Tempuerature	−10°C~+50°C	
Wire Size	0.5mm^2 ~1mm^2	
Torque	0.5Nm	
Mounting	TH-35 DIN-Rail	

DIMENSIONS



WIRING DIAGRAM

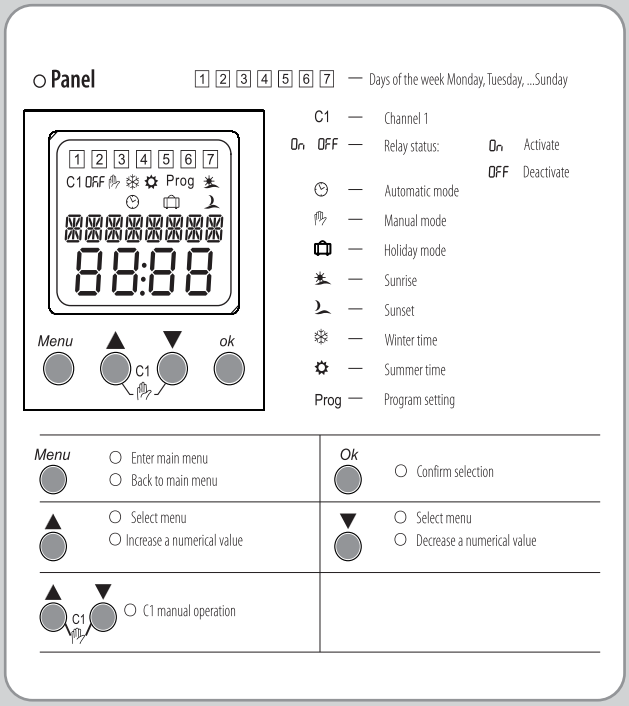


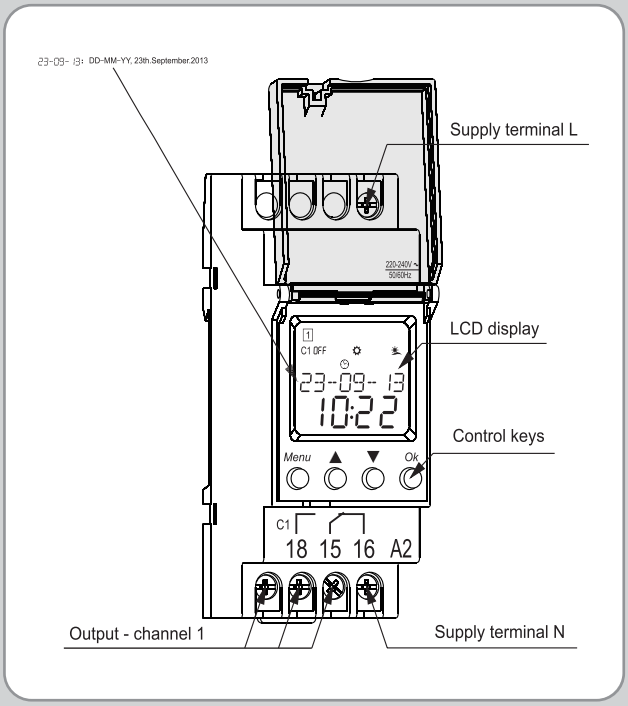
SINGLE CHANNEL ASTRONOMICAL

Model No: SMART-SCA 160

- Digital Time Switch with Astronomical Program.
- 3 Year Power Reserve (Lithium Battery).
- Sealable Cover of the Front Panel, Easy Setting By 4 Keys.
- Automatics Summer/Winter Time Switchover
- LCD Display, Holiday Mode
- Automatic Transfer of Week Days
- Double Modules Mounted on Th-35 Rail.

DIMENSIONS

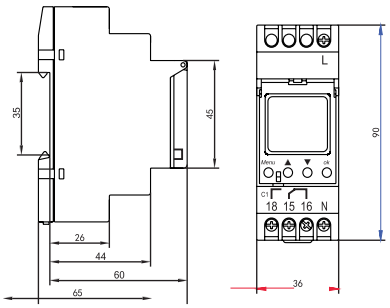




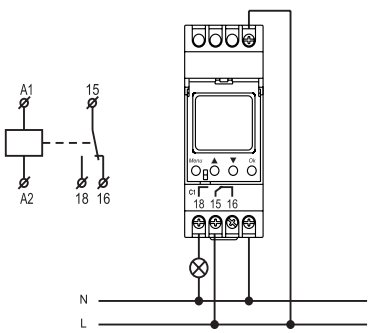
SPECIFICATION

Supply Terminals	A1-A2
Rated Voltage	AC220-240V
Rated Frequency	50/60Hz
Power Conumption	1W
Supply Voltage Tolerance	±10%
Number of Channels	1
Program	astronomical
Mode of work	manual, automatic, holiday
Summer/winter time	off, automatic changes
Time Tolerance	≤1s/day at 20℃
Power Reserve	3 year
Data Readout	LCD display
Number of Contacts	1 C/O
Switching Capactcity	16A/250V AC1
Electrical Life	4000VA/AC，384W/DC
Mechanical Life	10^6
Reted	10^5
Insulaton Voltage	250V
Protection Degree	IP20
Prollution Degree	3
Altitude	≤2000m
Ambient Temperature	-30℃~55℃
Storage Temperature	≤50%(40℃,without condensation)
Wire Size	-35℃~70℃
Tighening Torque	$1mm^2$ ~ $4mm^2$
Size	0.5Nm
Mounting	TH-35 Rail(EN60715)
Dimensions	90*36*64mm
Standard	IEC60947-1/IEC60947-2-7

DIMENSIONS



WIRING DIAGRAM

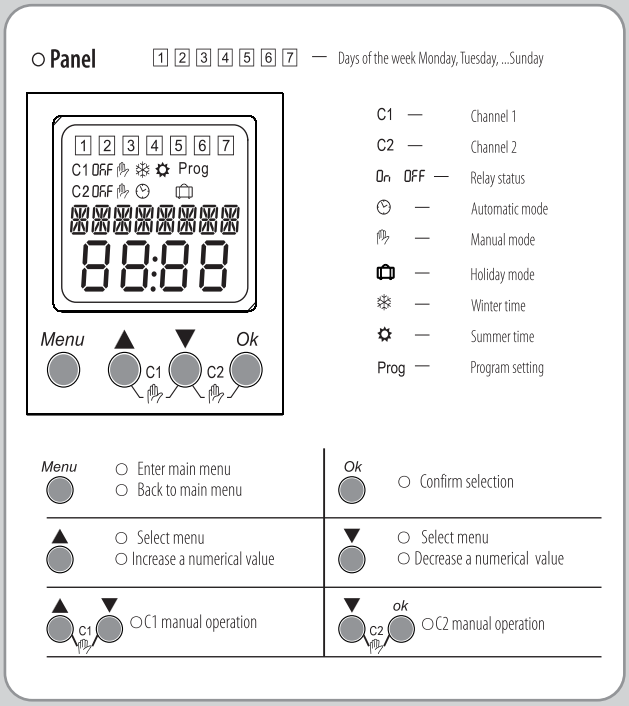


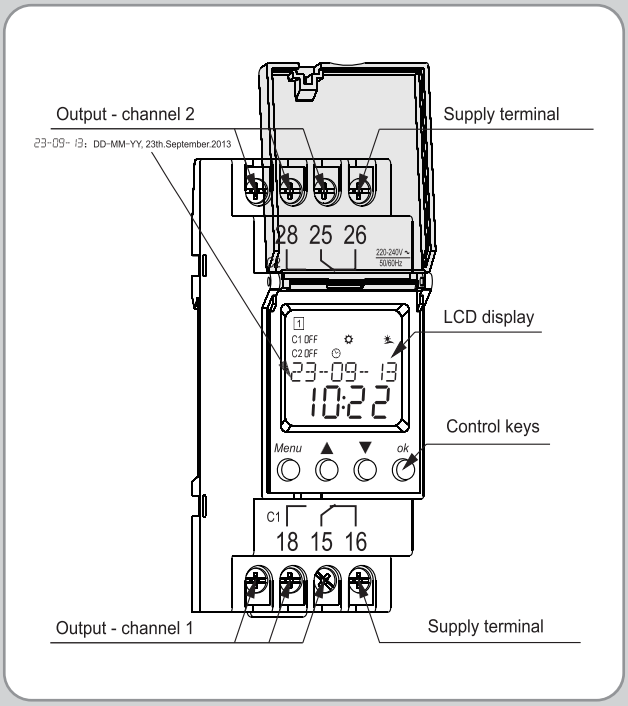
DOUBLE CHANNEL DIGITAL WEELY

Model No: SMART-DCDW 170

- Digital Time Switch With Astronomical Program.
- 10 Year Power Reserve (Lithium Battery).
- Sealable Cover of the Front Panel, Easy Setting By 4 Keys.
- Automatics Summer/Winter Time Switchover
- LCD Display, Holiday Mode
- Automatic Transfer of Week Days
- 220-240v AC Input Supply.
- Double Modules Mounted on Th-35 Rail.

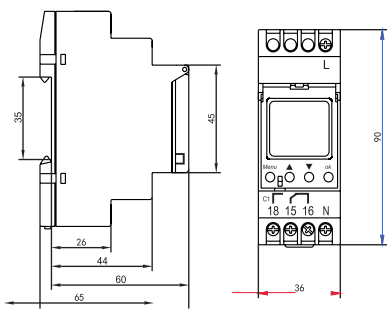
DIMENSIONS



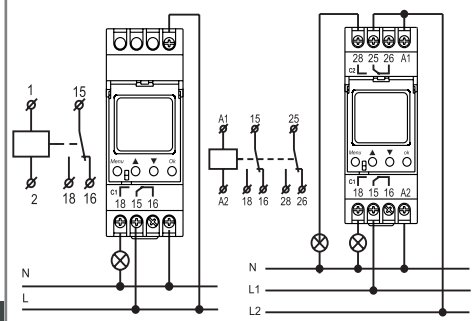


SPECIFICATION	
Supply Terminals	A1-A2
Rated Voltage	AC220-240V
Rated Frequency	50/60Hz
Power Conumption	2W
Supply Voltage Tolerance	±10%
Number of Channels	Double channels
Program	100
Mode of work	weekly program, daily program
Summer/winter time	manual, automatic, holiday
Time Tolerance	off, automatic changes
Power Reserve	≤1s/day at 25℃
Data Readout	10 year
Number of Contacts	LCD display with backlight
Switching Capactcity	2 C/O
Electrical Life	16A/250V AC1
Mechanical Life	4000VA/AC1，384W/DC
Reted	10^6
Insulaton Voltage	10^5
Protection Degree	250V
Prollution Degree	IP20
Altitude	3
Ambient Temperature	≤2000m
Storage Temperature	−20℃~55℃
Wire Size	≤50%(40℃,without condensation)
Tighening Torqu	−30℃~70℃
Mounting	$1mm^2$ ~ $4mm^2$
Working Nm	0.5Nm
TH-Rail	TH-35 Rail(EN60715)
Dimensions	90*36*64mm
Standard	IEC60947-1/IEC60947-2-7

DIMENSIONS



WIRING DIAGRAM



TWILIGHT SWITCH

Model No: SMART-TS 180

- Modular Design 36mm Wide Housing.
- Sensitivity Adjustment from 2 To 100 Lux.
- Eternal Light Sensor Included in Delivery
- Fixed Switching on and Off Delay.
- LED Indication for Power Supply and Relay Status
- Din Rail Mounting.

DESCRIPTION

Connect the sensor TS 180.

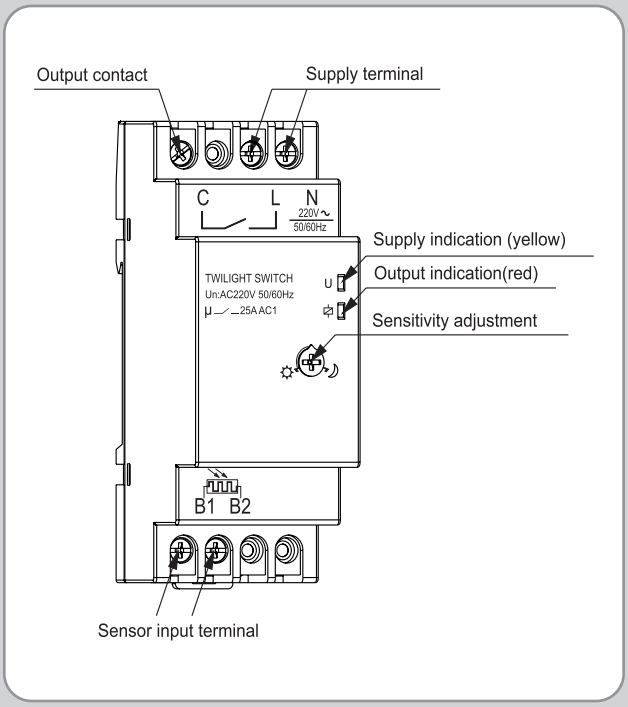
When the strength of light goes below set Sensitivity value, output Indication LED light Up .

After the switch on delay switch energizes its contacts.

Delay can avoid any command scened by temporary illumination or headlights.

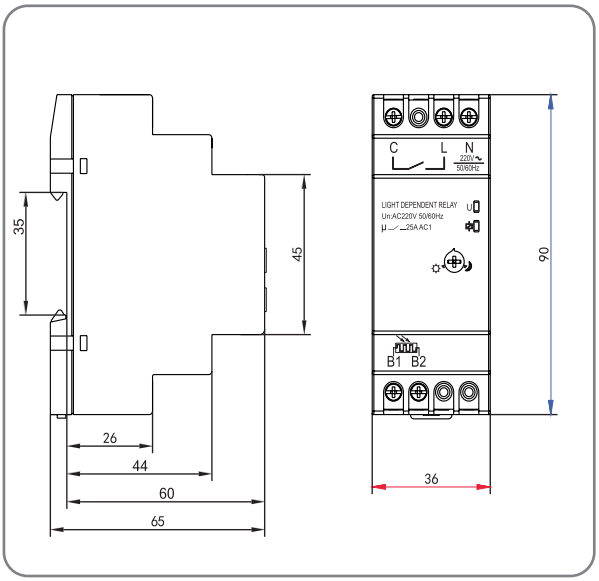
When the strength of light goes above the hysteresis Hysteresis=1/4* set sensitivity value delay Value, output indication LED goes out and the delay begin.

After the switch off delay, switch De-energizer its contacts.

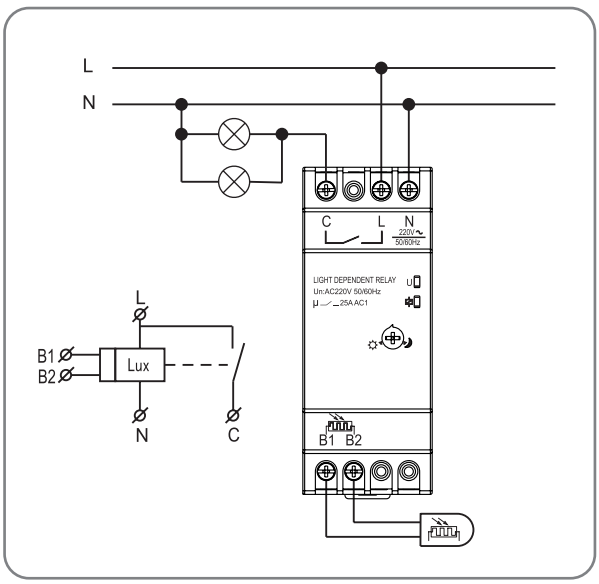


SPECIFICATION	
Reted Content Voltage	AC220V
Frequency	50/60Hz
Senitivity Thrshold	2~100lux adjustable
Switch-on Delay	2-5s
Switch-off Delay	10-15s
Hysteresis (Switching off/on ratio)	1.20
Output Contact	1NO
Current Rating	25A/250V AC1
Incandescent Lamp Load	3000 W
Halogen Lamp Load	3000 W
Fluoresent Lamp Load (Compensated)	1000 W
Uncompensted	1300 W
Protection Degree	Terminal: IP20, Sensor: IP65
Ambient Temperature	-25°C~+40°C

DIMENSIONS



WIRING DIAGRAM

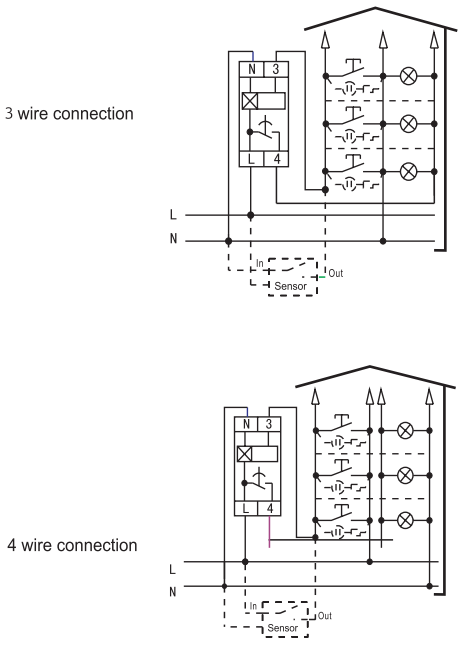


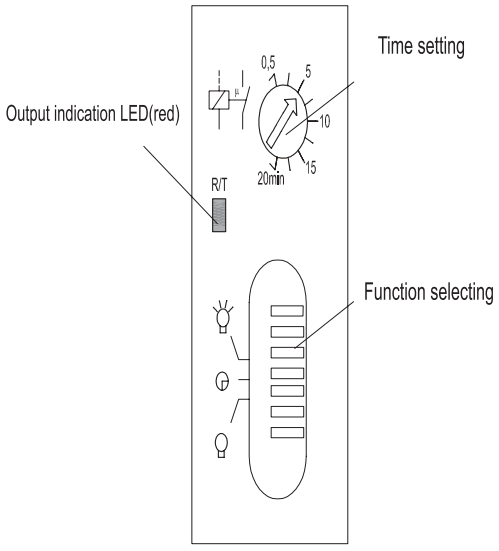
STAIRCASE LIGHTING TIME

Model No: SMART-SLT 190

- Microcontroller Based
- Modular Design 18mm Wide Housing
- Possibility of 3 wire or 4 Wire Connection.
- ON, OFF, AUTO Three Operating Modes
- Repartition Accuracy <0.2%, LED
- DIN-Rail Mounting

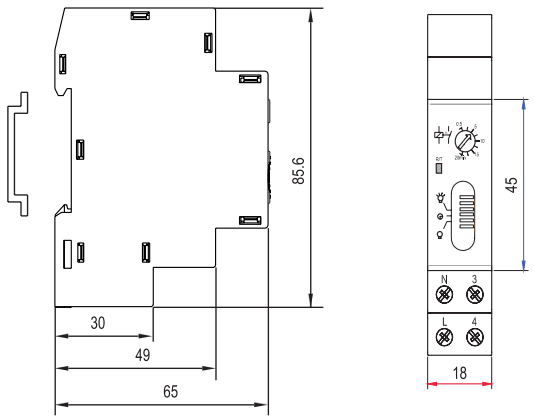
APPLICATION



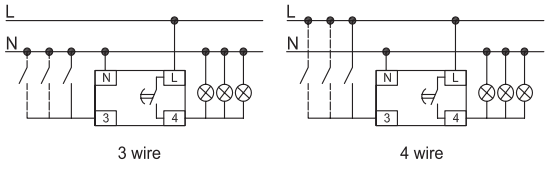


SPECIFICATION	
Reted Supply Voltage	AC230VAC,50/60Hz
Type of Contact	1NO(AgNi)
Reted Current (Lth)	10A
Power Consumption	≤1.5VA
Incandescent Lamp Load	2000W
Fluorescent Lamp Loa,Leat-lag Circuit	1000W
Fluorescent Lamp Load, Incductive-Capactive	1000W
Fluorescent Lamp Load, Co$=0.6 @ 230|V	650W
Mechanical	650W
Elevtrical	^{5}10
Time Range	^{6}10
Setting	0.5-20m
Repetintion	≤5%
Altitude	≤0.2%
Protection Degree	50mA
Pollution Degree	≥200ms
Storage	≤2000m
IP	IP20
Mode	3
Work Temperature	-5℃~+40℃
Temperature Opertion	-25℃~+75℃

DIMENSIONS



WIRING DIAGRAM



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