



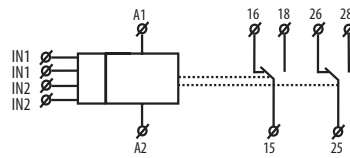
- ! multifunction programmable digital relay with 4 digit red LED display
- ! control and setting is done by 4 buttons, user-friendly menu, absolute accuracy in timer setting, time countdown on a display galvanically separated START and STOP control inputs with UNI supply
- ! thanks to its complexity it is possible to program also more demanding time functions by using 2 independent times
- ! 2 independent times, with combination of 2 inputs and 2 outputs
- ! PDR-2/A: 16 functions, choice of functions of the other relay, 20 memory places for most frequently used times
- ! PDR-2/B: 10 functions, 1 output of 10 functions can be assigned to each relay = 2 relays in one device
- ! 2 independent times in range: 0.01 s - 100 hrs
- ! supply voltage AC/DC 12 - 240 V or AC 230 V
- ! 3-MODULE, DIN rail mounting

TIME RELAYS

Technical parameters		PDR-2
Function:		16 (PDR-2/A), 10 (PDR-2/B)
Supply terminals:		A1 - A2
Supply voltage:	UNI	AC/DC 12 - 240 V (AC 50 - 60 Hz)
Consumption:		AC 0.5 - 2.5 VA / DC 0.4 - 2.5 W
Supply voltage:	230	AC 230 V / 50 - 60 Hz
Consumption (apparent/loss):		AC max. 16 VA / 2.5 W
Supply voltage tolerance:		-15 %; +10 %
Time ranges:		0.01 s - 100 h
Repeat accuracy:		0.2 % - set value stability
Temperature coefficient:		0.01 % / °C, at = 20 °C
Output		
Number of contacts:		2x changeover (AgNi)
Rated current:		16 A / AC1
Breaking capacity:		4000 VA / AC1, 384 W / DC
Inrush current:		30 A / <3 s
Switching voltage:		250 V AC1 / 24 V DC
Min. breaking capacity DC:		500 mW
Output indication:		red LED
Mechanical life:		3x10 ⁷
Electrical strength (AC1):		0.7x10 ⁵
Control		
Control input consumption:		AC 0.01 - 0.25 VA (UNI), AC 0.25 VA (AC 230 V)
Load between S-A2:		Yes (UNI, AC 230 V)
Glow lamps:		No (UNI), No (AC 230 V)
Control. impulse length:		min. 1 ms / max. unlimited
Reset time:		max. 200 ms
Display - colour:		red
Number and height of digits:		4 positions with separating colon, height 10 mm
Luminance:		2200 - 3800 ucd
Light wavelength:		635 nm
Brightness setting:		range 20 - 100 % in 10 steps adjustable
Memory - memory locations:		20 (PDR-2/A) / 30 (PDR-2/B) for times ranges + service function
Data stored for:		min. 10 years
Other information		
Operating temperature:		-20.. +55 °C
Storage temperature:		-30.. +70 °C
Electrical strength:		4 kV (supply - output)
Operating position:		any
Mounting/DIN rail:		DIN rail EN 60715
Protection degree:		IP 40 from front panel
Overtoltage category:		III.
Pollution degree:		2
Max. cable size (mm ²):		solid wire max. 1x 2.5 or 2x1.5/ with sleeve max. 1x1.5
Dimensions:		90 x 52 x 65 mm, see page 157-159
Weight:		(UNI) - 143 g, (230) - 134 g
Standards:		EN 61812-1, EN 61010-1

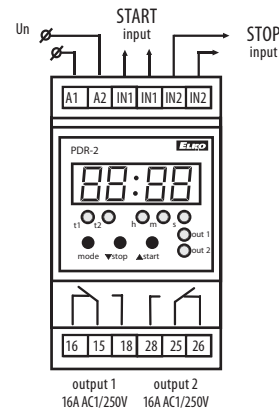
Symbol

PDR-2

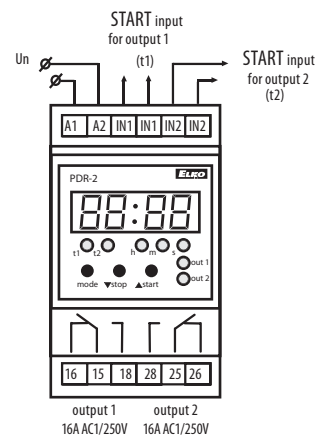


Connectin

PDR-2/A



PDR-2/B



Function

Functions for PDR-2/A and PDR-2/B

Function	Supply voltage	Timing diagram
1. Delay on	A1-A2 15-18	[Diagram: Delay on after supply voltage starts]
2. Delay off	15-18	[Diagram: Delay off after supply voltage ends]
3. Delay on after break of control. contact	START 15-18	[Diagram: Delay on after control contact pulse]
4. Delay on at make of control. contact	START 15-18	[Diagram: Delay on at start of control contact]
5. Delay off after break of output contact	START 15-18	[Diagram: Delay off after output contact pulse]
6. Delay off at make of output contact	START 15-18	[Diagram: Delay off at start of output contact]
7. Delay off at break of control. contact with instant output	START 15-18	[Diagram: Delay off at control contact pulse]
8. Delay off at make of control. contact with delayed output	START 15-18	[Diagram: Delay off at start of control contact]
9. Cyclus beginning with impulse	15-18	[Diagram: Pulse train starting with impulse]
10. Cyclus beginning with pause	15-18	[Diagram: Pulse train starting with pause]

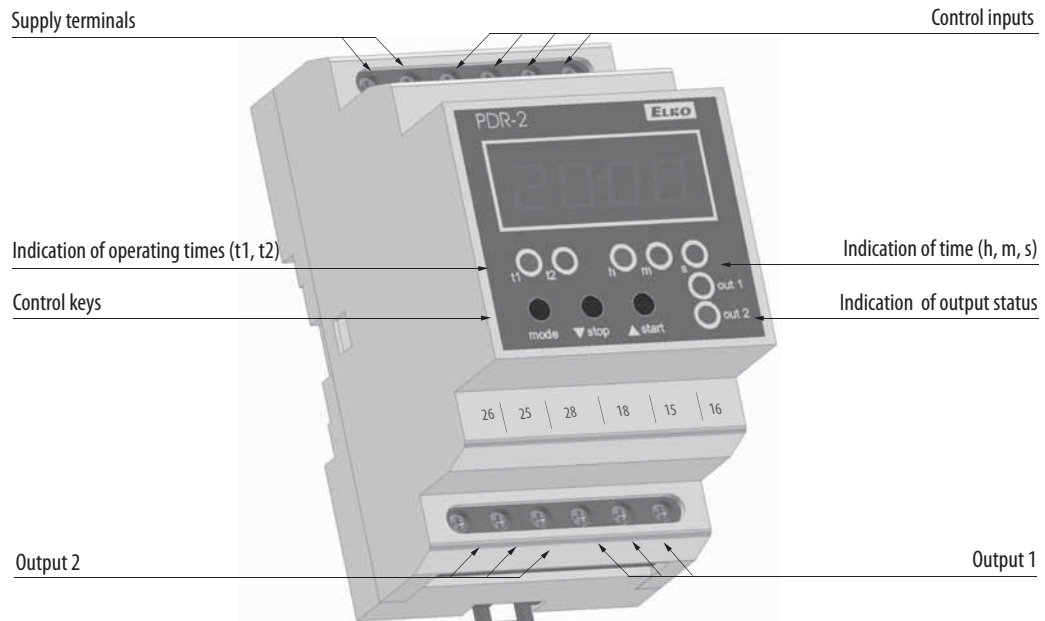
Recommendation:

PDR-2/B is replaced by 2 simple time relays = 2 in one.

Functions for PDR-2/A

Function	Supply voltage	Timing diagram
11. Cyclus beginning with impulse with variable interval	A1-A2 15-18	[Diagram: Pulse train with variable intervals]
12. Cyclus beginning with pause with variable interval	15-18	[Diagram: Pulse train with variable intervals and pauses]
13. Generator of impulse	START 15-18	[Diagram: Impulse generation during supply voltage]
14. Changeover star/delta	15-18 25-28	[Diagram: Changeover during supply voltage]
15A. Shift of pulse by 2 times	START 15-18	[Diagram: Pulse shift by 2x]
15B. Shift of impulse by 2 times	START 15-18	[Diagram: Impulse shift by 2x]
16A. Extended impulse by 2 times	START 15-18	[Diagram: Extended impulse by 2x]
16B. Extended impulse by 2 times	START 15-18	[Diagram: Extended impulse by 2x]

Description



Time data

Time range:	0.01 s - 99 h 59 min 59 sec 99 ss
Minimal time step:	0.01 s
Time deviation:	0.01 % of set value
Setting error:	0 %
Setting, reset accuracy:	100 %
Digital places:	selected via program