

- Single-function time relays are suitable for universal use in automation, control and regulation or in house installations where there is a clear function requirement in advance
- Choice of four types function: ZR, ZN, BL, OD
- All functions initiated by the supply voltage can use the control input to inhibit the ongoing delay (pause)
- Universal supply voltage AC/DC 12 – 240 V
- Time scale 0.1 s - 100 h divided into 10 ranges: (0.1 - 1 s / 1 - 10 s / 3 - 30 s / 6 - 60 s / 1 - 10 min / 3 - 30 min / 6 - 60 min / 1 - 10 h / 3 - 30 h / 10 - 100 h)
- Output contact: 1x changeover / SPDT 16 A
- Multifunction red LED fl ashes or shines depending on the operating status.

**181J****SINGLE FUNCTION
TIME RELAYS**

181J ZR – Delay on Make
181J ZN – Interval On
181J BL – Repeat Cycle
181J OD – Delay on Break

TECHNICAL PARAMETERS**POWER SUPPLY**

Supply terminals:	A1 - A2
Supply voltage:	AC/DC 12 - 240 V (AC 50-60 Hz)
Consumption (max.):	2 VA/1.5 W
Supply voltage tolerance:	-15 %; +10 %
Supply indication:	green LED

TIME CIRCUIT

Time ranges:	0.1 s - 100 h
Time setting:	rotary switch and potentiometer
Time deviation:	5% - mechanical setting
Repeat accuracy:	0.2 % - set value stability
Temperature coefficient:	0.01 %/°C, 20 °C (0.01 %/°F, at = 68 °F)

OUTPUT

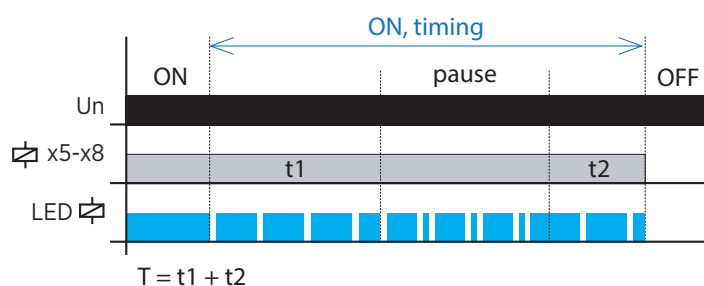
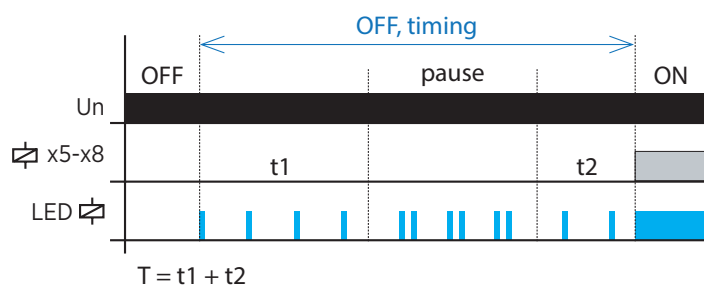
Contact type:	1x changeover/SPDT (AgNi)
Current rating:	16 A/AC1; PD. B300
Breaking capacity:	4000 VA/AC1, 384 W/DC
Electrical life (AC1):	100.000 ops.
Switching voltage:	250 V AC/24 V DC
Max. power dissipation:	1.2 W
Output indication:	multifunction red LED
Mechanical life:	10.000.000 ops.

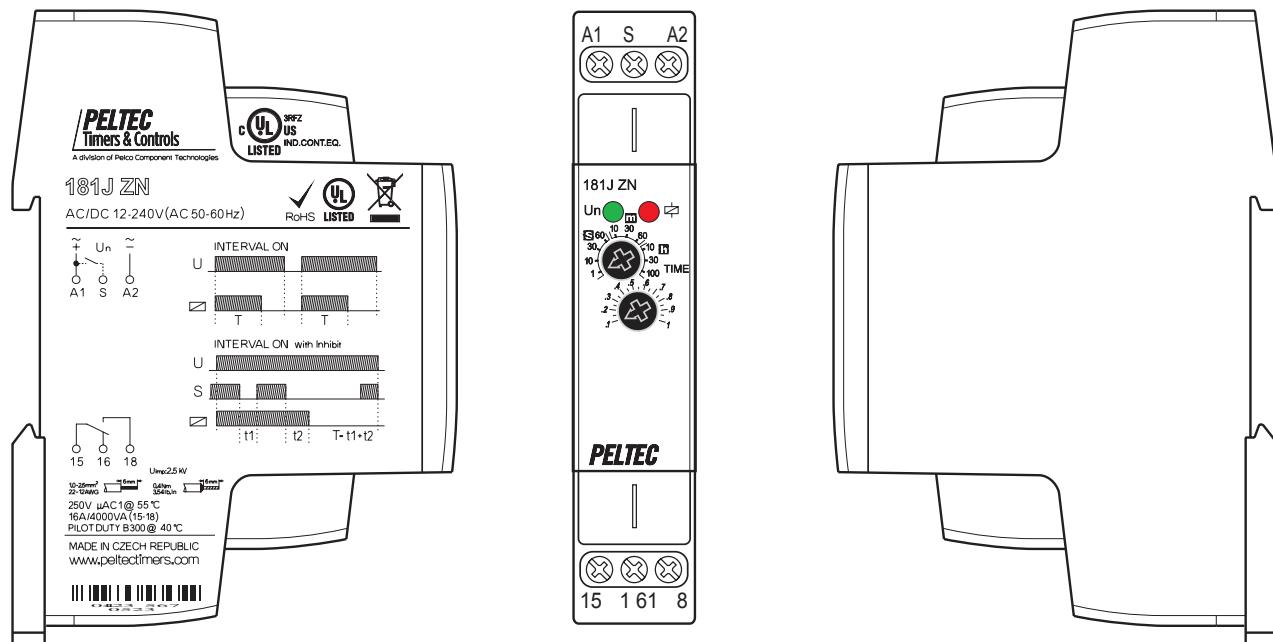
CONTROL

Control terminals:	A1-S
Load between S-A2:	Yes
Impulse length:	min. 25 ms/max. unlimited
Reset time:	max. 150 ms

OTHER INFORMATION

Operating temperature:	-20 .. 55 °C (-4 .. 131 °F)
Storage temperature:	-30 .. 70 °C (-22 .. 158 °F)
Dielectric strength:	4 kV AC
Operating position:	Any
Mounting:	DIN rail EN 60715
Protection degree:	III.
Pollution degree:	2
Dimensions:	90 x 17.6 x 64 mm (3.5" x 0.7" x 2.5")
Weight:	61 g (2.2 oz)
Standards:	EN 61812-1

OPERATING STATES

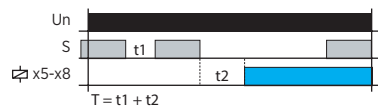


FEATURES

ZR ON DELAY



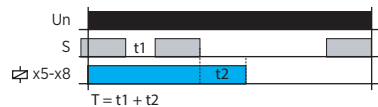
ON DELAY with Inhibit



ZN INTERVAL ON



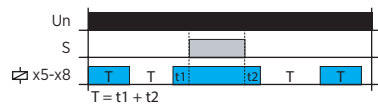
INTERVAL ON with Inhibit



BL FLASHER - ON first



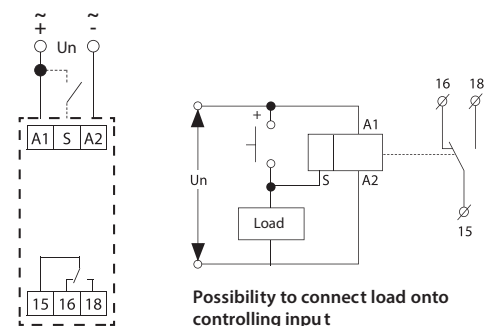
FLASHER - ON first with Inhibit



OD OFF DELAY



CONNECTION



DESCRIPTION

