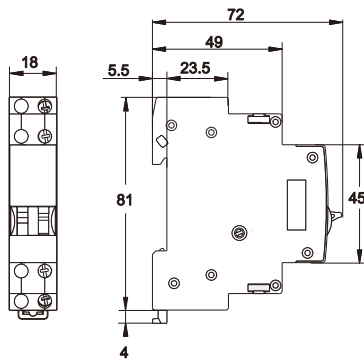


Impulse Relay WTL



WTL-16/10,
WTL-16/20
WTL-16/11,
WTL-16/1C

Customer needs

- The lighting system must be able to be turned on locally, by the residents.
- It must be possible to switch off all the lighting areas by means of a centralized control in a single action, to ensure extinguishing of the whole house.
- For practical reasons, all the lighting areas can also be switched on in a single action.

Proposed solution

- The use of Denor **Impulse Relays** allows both local control of each room and centralized control of the whole house.
- Centralized control is provided by ON/OFF push buttons, remote from all the rooms to be managed.

User/customer benefits

- **Energy savings:** centralized control allows extinguishing of all the rooms in the house to prevent leaving rooms lit when there are no residents.
- **Comfort:** all the rooms in the house can also be switched on in a single action.
- **Ease of installation:** the small size (18 mm) of the impulse relay is equivalent to that of a simple impulse relay.

MOUNTING:

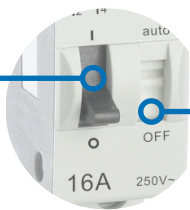
- mounting to 35mm DIN-rail
- mounting : in different position of installation
- plastic: nonflammable (self-extinguishing material)
- ambient temperature: -20°C to + 50°C
- degree of protection(IEC 60529) : IP20
- tropicalization(IEC 60068-1) : treatment 2 (relative humidity 95% at 55°C)

Technical Specifications

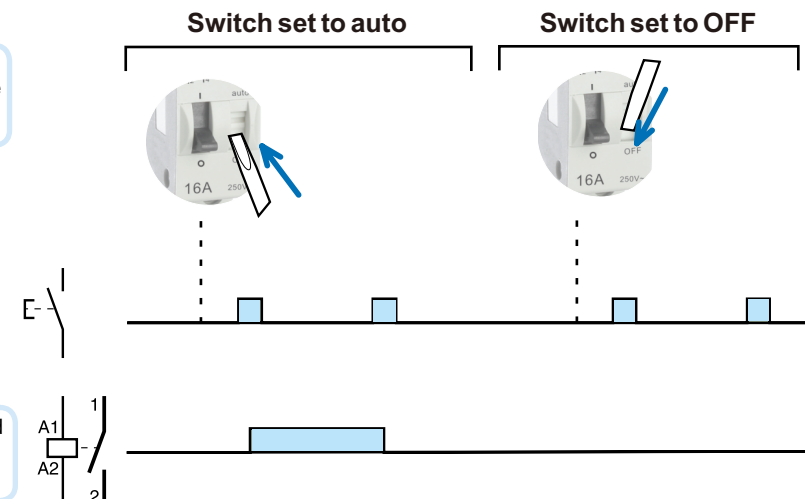
Control circuit	Dissipated power (during the impulse)	1, 2P: 19 VA
	Illuminated PB control	Max. current 3 mA
	Operating threshold	Min. 85 % of Un IEC/EN60669-2-2
	Duration of the control order	50 ms to 1 s (200 ms recommended)
	Response time	50 ms
Power circuit	Voltage rating (Ue)	1P, 2P 24 ...250 V AC
	Frequency	50 Hz or 60 Hz
	Maximum number of operations per minute	5
	Maximum number of switching operation a day	100
Additional characteristics to IEC/EN 60947-3	Insulation voltage (Ui)	440 V AC
	Pollution degree	3
	Rated impulse withstand voltage (Uimp)	6 kV
Endurance (O-C)	Electrical to IEC/EN 60947-3	200,000 cycles (AC21) 100,000 cycles (AC22)
	Overvoltage category	IV

Operation

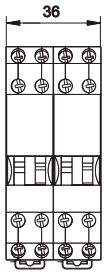
- Disconnection of remote control by selector switch (except for 4P single-piece BIR) for maintenance operation



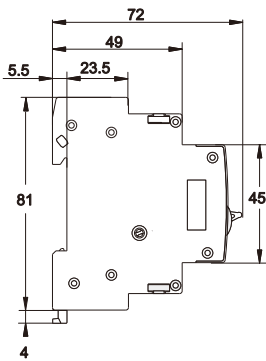
- Manual controls on front face: direct and priority manual control by O-I toggle
- Mechanical contact position indicator



Basic Information for Impulse Relays (5 coils for option)

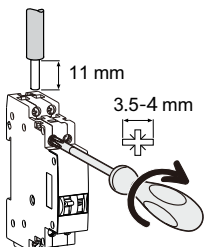


WTL-16/30
WTL-16/21
WTL-16/40
WTL-16/31
WTL-16/22
WTL-16/2C



Type 1P	Rated (Ie) Current	Model	Control voltage (VAC) (VDC)		Contact	In 18 mm modules	Denor code
	16A	WTL-16/10	230 130 48 24 12	110 48 24 12 6	1NO	1	WTL1610230 WTL1610130 WTL161048 WTL161024 WTL161012
	16A	WTL-16/20	230 130 48 24 12	110 48 24 12 6	1NO+1NO	1	WTL1620230 WTL1620130 WTL162048 WTL162024 WTL162012
	16A	WTL-16/11	230 130 48 24 12	110 48 24 12 6	1NO+1NC	1	WTL1611230 WTL1611130 WTL161148 WTL161124 WTL161112
	16A	WTL-16/1C	230 130 48 24 12	110 48 24 12 6	1 Change over	1	WTL161C230 WTL161C130 WTL161C48 WTL161C24 WTL161C12
	16A	WTL-16/30	230 130 48 24 12	110 48 24 12 6	3NO	2	WTL1630230 WTL1630130 WTL163048 WTL163024 WTL163012
	16A	WTL-16/21	230 130 48 24 12	110 48 24 12 6	2NO+1NC	2	WTL1621230 WTL1621130 WTL162148 WTL162124 WTL162112
	16A	WTL-16/40	230 130 48 24 12	110 48 24 12 6	4NO	2	WTL1640230 WTL1640130 WTL164048 WTL164024 WTL164012
	16A	WTL-16/31	230 130 48 24 12	110 48 24 12 6	3NO+1NC	2	WTL1631230 WTL1631130 WTL163148 WTL163124 WTL163112
	16A	WTL-16/22	230 130 48 24 12	110 48 24 12 6	2NO+2NC	2	WTL1622230 WTL1622130 WTL162248 WTL162224 WTL162212
	16A	WTL-16/2C	230 130 48 24 12	110 48 24 12 6	2 Change over	2	WTL162C230 WTL162C130 WTL162C48 WTL162C24 WTL162C12

Connection



Connection

Type	Rating	Lenght tripping	Circuit	Tightening torque	Copper cables	
					Rigid	Flexible or ferrule
PZ1:4 mm	16A	9mm	Control Power	1N.m	0.5 to 4mm ² 1.5 to 4mm ²	1 to 4mm ² 1.5 to 4mm ²