

7TS16 Annunciation Relay



Fig. 14/10 7TS16 annunciation relay

Description

The 7TS16 relay features auxiliary trip indication for local and remote signaling. It has four independent output contacts and LED indication. The relay complies with the IEC and EN standards and bears the CE mark.

The 7TS16 is a reliable and versatile high-speed relay with four signal inputs. It has four local LEDs and auto-resetting output contacts, used in SCADA controls. Additionally, it features two diode tripping circuits.

Reset is possible via remote input and via local reset push button.

The reset should not be permanently switched on.

Function overview

- Indications: Four LEDs, latching type, signaling until reset.
- Inputs: Four alarm/trip inputs
 - Input for remote reset
 - Push button for local reset
- Outputs: For each alarm/trip input:
 - One diode 2.5 A
 - One potential free changeover contact
 - One potential free NO contact
 - One common tripping output through diode (2.5 A; V_{max} 220 V DC)
- Contacts:
 - Permanent current 8 A
 - Instantaneous current 15 A
 - Making capacity 15 A / 4 s / 110 V DC
 - Breaking capacity 0.3 A / 110 V DC

Technical data

- Rated voltages (V_N):
24/30, 110/125, 220 V DC
- Voltage range
 V_N +10 % – 30 %
- Operating temperature -10 to +55 °C
- Operating humidity 93 %/40 °C
- Pickup time < 5 ms
- Consumption

For one trip

V_N	
24/30 V DC	1 A/3 ms
110/125 V DC	3 A/3 ms
220 V DC	4 A/3 ms

For a permanent trip

V_N	mA
24/30 V DC	21
110/125 V DC	8
220 V DC	6.5

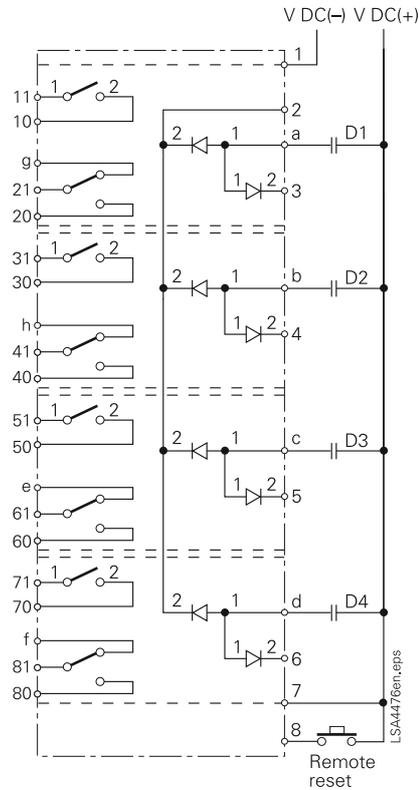
For a latched LED

V_N	mA
24/30 V DC	1
110/125 V DC	3
220 V DC	5

Standards

- Electrical tests performed acc. to IEC 60255-5
- Dielectric test 2 kV/50 Hz/ 1 min
 - Surge withstand test 5 kV/1.2/50 μ s
- High-frequency test acc. to IEC 60255-22-1
- Common mode 2.5 kV / 1 MHz
 - Differential mode 1 kV / 1 MHz
- Inflammability tests
Plastic materials
UL94: VO
- Degree of protection Relay: IP40
acc. to IEC 60529
- Climatic stress test acc. to IEC 60068-2
- Dry cold, operation - 10 °C
 - Dry heat, operation + 55 °C
 - Storage and transport - 30 °C + 70 °C

Connection diagram



- 2 Direct common trip output
- 3, 4, 5, 6 Direct trip output
- 1(-), 7(+) Auxiliary supply
- D External relay contact

Fig. 14/11 Connection diagram
Contacts represented without auxiliary supply in the relay

Selection and ordering data

Description	Order No.
7TS16 annunciation relay with 4 LEDs	7TS16□2-0AA00-□
<i>Rated auxiliary voltage</i>	
24/30 V DC	1
110/125 V DC	3
220 V DC	4
<i>Socket</i>	
Without socket	0
With flush-mounting socket 7XP9010-2	1
With surface-mounting socket 7XP9012-0	2

Accessories

<i>Socket as spare part</i>	
Flush mounting	7XP9010-2
Surface mounting	7XP9012-0