

# ABE7S16S1B2

sub-base - soldered solid state output relay ABE7 -  
16 outputs - 0.5 A



## Main

Range of product	Advantys Telefast ABE7
Product or component type	Solid state output relay sub-base
[Us] rated supply voltage	24 V DC (PLC end) 24 V DC (preactuator end)
Number of channels	16
Relay type	Soldered solid state relay

## Complementary

Terminal block type	Removable
Isolation PLC/operative part	No
Fixing mode	By clips on 35 mm symmetrical DIN rail By screws on solid plate with fixing kit
Width	125 mm
Current state 0 guaranteed	0.4 mA (PLC end)
Voltage state 0 guaranteed	3.4 V (PLC end)
Current state 1 guaranteed	3.1 mA (PLC end)
Voltage state1 guaranteed	16.9 V (PLC end)
Current per output common	<= 9 A
Current per channel	0.5 A (preactuator end)
Minimum switching current	1 mA
Drop-out voltage	<= 0.3 V (preactuator end)
Maximum switching current	700 mA DC-12 700 mA DC-13
Tungsten load	10 W DC-6
Residual current	<= 0.5 mA (preactuator end)
Fault type	Overload Short-circuit
Fault indication	Without
Switchable inductive energy L/R	<= 400(U.I) ms
Circuit breaker threshold	>= 0.75 A
Response time	<= 0.1 ms from state 1 to 0 <= 0.2 ms from state 0 to 1
Switching frequency	< 0.6/LI <sup>2</sup> Hz
Installation category	II conforming to IEC 60664-1
Tightening torque	0.6 N.m (with flat Ø 3.5 mm)
Product weight	0.4 kg

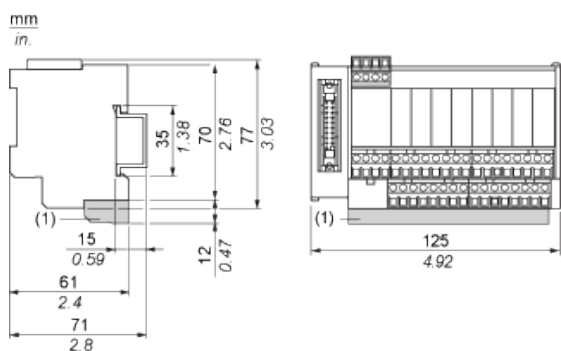
## Environment

Product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) UL
IP degree of protection	IP2x conforming to IEC 60529
Protective treatment	TC
Resistance to incandescent wire	750 °C, extinction time: < 30 s conforming to IEC 60695-2-11

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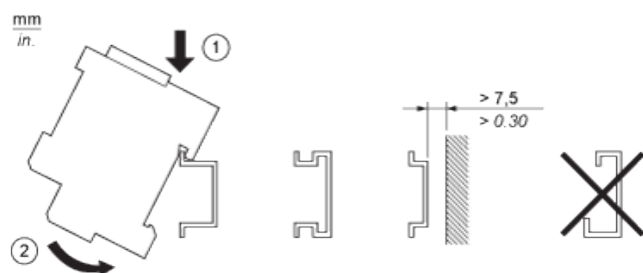
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	4 kV (contact) conforming to IEC 61000-4-2 level 3 8 kV (air) conforming to IEC 61000-4-2 level 3
Resistance to radiated fields	10 V/m (26000000...1000000000 Hz) conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 3
Ambient air temperature for operation	-5...60 °C conforming to IEC 61131-2
Ambient air temperature for storage	-40...80 °C conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664-1

## Dimensions

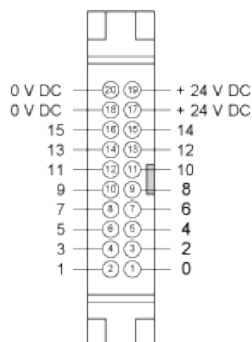


(1) ABE7BV20 / ABE7BV20E

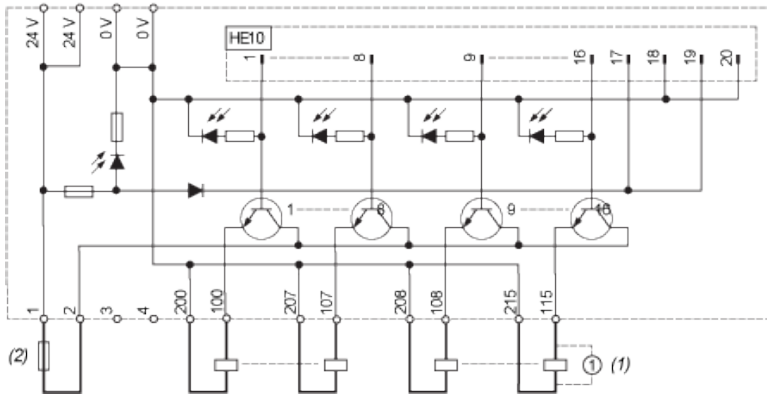
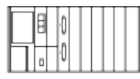
## Mounting



## HE10 16 Channels



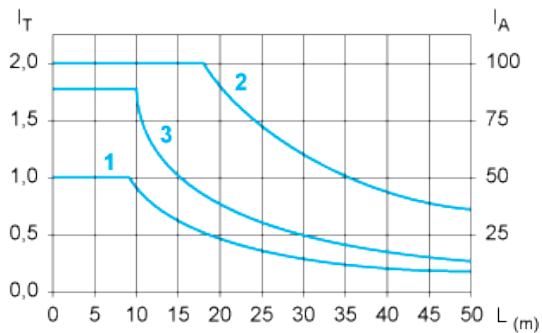
## Wiring Diagram



- (1) Inductive load
- (2) AB1FUSE435U5X + quick acting FUSE 5 x 20 type F.

### Curves for Determining Cable Type and Length According to the Current

#### 16-channel Sub-base



- L Cable length
- $I_T$  Total current per sub base (A)
- $I_A$  Average current per channel (mA)

- (1) TSXCDP\*\*2 and ABFH20H\*\*0 cables with c.s.a. 0.08 mm<sup>2</sup> (AWG 28).
- (2) TSXCDP\*\*3 cables with c.s.a. 0.34 mm<sup>2</sup> (AWG 22).
- (3) Cables with c.s.a. 0.13 mm<sup>2</sup> (AWG 26).

The curves are given for a voltage drop of 1 V in the cable. For n volts tolerance, multiply the length determined from the graph by n.