



control logic by using a contact element (or similar element) with the output point name.


Maintenance

No periodic maintenance or calibration is required for this module. If a module is to be replaced, verify the replacement module's relay form configuration matches the original relay output module.

Fuses for each output are located inside the module. These fuses are for protection of the I/O chassis connectors and module circuit board only, and are not field-replaceable. Should an internal fuse blow, it indicates that the module is being used for output loads in excess of the safe rating of the module and the I/O chassis.

Modules with blown fuses should be returned to ICS for repair or replacement.

Safety Considerations

TÜV  The relay output modules are TÜV certified as non-interfering, and can be used in a safety system for simplex non-safety critical outputs. For safety critical outputs, guarded output modules should be used (model T7481, T7484, T7485 or T7488 are recommended).



Specifications

Safetybus Power	1.0 load units
Number of Outputs	Eight isolated circuits (four Form-C contacts, four selectable N.O. or N.C. contacts)

	T7446L	T7446H
Voltage Range	0.1 to 125 VAC/DC	5 to 250 VAC 5 to 125 VDC
Load Current	2.0 amps	2.0 amps
Minimum Load	0.1 VDC/10 μ A	5 VDC/10 mA
Surge Current	20 amps, 16 msec	20 amps, 16 msec
Over Voltage Protection	750 VAC, 1 minute	1000 VAC, 1 minute
Rated Load		
resistive	110 VAC, 0.3 amps 24 VDC, 1 amp	250 VAC, 2 amps 50 VDC, 2 amps
inductive	110 VAC, 0.2 amps 24 VDC, 0.3 amp	250 VAC, 2 amps 30 VDC, 2 amps
Maximum Switching		
resistive	60 VA, 30 W	500 VA, 100 W
inductive	20 VA, 10 W	500 VA, 60 W
Contact Resistance	50 mOhms, initial	30 mOhms, initial
Breakdown Voltage		
Logic to field	1000 VAC	2000 VAC
Same channel	750 VAC	1000 VAC
Chnl to chnl	2500 VAC	2500 VAC
Turn-On Delay	5 msec	10 msec
Turn-Off Delay	2 msec	10 msec
Heat Dissipation	4.5 Watts, 15 BTUs/hour	4.5 Watts, 15 BTUs/hour



Fusing (internal)	One 3.5 A, slow blow per output Note: Internal fuses are for protection of the printed circuit board only. Each output should be individually fused outside the module with a fuse rated for the output load.
Operating Temperature	0° to 60° C (32° to 140° F)
Storage Temperature	-40° to 85° C (-40° to 185° F)
Operating Humidity	0 to 95% relative humidity, non-condensing
Vibration 10 to 55 Hz:	±0.15mm
Shock Operating:	15 g, ½ sine wave, 11 msec
Electromagnetic Interference	
• IEC 801 Part 2 - Electrostatic Discharges	Level 3: Contact discharge of 6 kV
• IEC 801 Part 3 - Radiated Electromagnetic Fields	Level 3: 10 V/M, 27 MHz - 500 MHz
• ANSI/IEEE C37.90 - Surge Withstand Capability	1 kV damped 1 MHz sine wave
Safety	Certified to DIN V VDE 0801 (non-interfering) and designed to meet UL 508 and CSA 22.2, No. 142-M1981
Dimensions	
Height:	12.6" (320 mm)
Width:	1.27" (32 mm)
Depth:	10.12" (257 mm)
Weight	4.0 lbs (1.8 kg)



Relay Output Modules (T7446L, H)