

DATA SHEET

DO828

Compact Product Suite hardware selector



The DO828 is an 16 channel 125V d.c. / 250V a.c. relay output module for the S800 I/O. The maximum output voltage is 125V d.c. / 250V a.c. and the maximum continuous output current is 2A. All outputs are individually isolated.

Each output channel consists of optical isolation barrier, output state indication LED, relay driver, relay and EMC protection components.

The relay supply voltage supervision, derived from the 12 V distributed on the ModuleBus, gives an error signal if the voltage disappears, and the Warning LED turns on. The error signal can be read through the ModuleBus. This supervision can be enabled/disabled with a parameter.

Features and benefits

- 16 channels for 125V d.c. / 250V a.c. relay outputs
- 16 isolated channels
- Output status indicators
- OSP sets outputs to predetermined state uponerror detection

General info			
Article number	3BSE069055R1		
Туре	Digital Output		
Signal specification	125 V d.c. / 250 V a.c., (5 - 125 V d.c. / 5 - 250 V a.c.), 2 A		
Number of channels	16		
Signal type	Relay (NO)		
HART	No		
SOE	No		
Redundancy	No		
High integrity	No		
Intrinsic safety	No		
Mechanics	S800		

Detailed data			
Isolation	Individually isolated, channel-to-channel and to circuit common		
Maximum field cable length	600 meters (656 yards)		
Rated insulation voltage	250 V		
Dielectric test voltage	2000 V a.c.		
Power dissipation	Typ. 3.5 W		
Current consumption +5 V Modulebus	45 mA		
Current consumption +24 V Modulebus	80 mA		
Current consumption +24 V external	0		

Diagnostics		
Front LED's	F(ault), R(un), O(SP) Channel 1-16 Status	
Supervision	12 V Relay power converter monitor	
Status indication of supervision	Module Error, Module Warning, Channel Error	

Environment and certification		
CE mark	Yes	
Electrical safety	EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201	
Hazardous Location	C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2	
Marine certification	DNV	
Temperature, Operating	0 to +55 °C (+32 to +131 °F), approvals are issued for +5 to +55 °C	
Temperature, Storage	-40 to +70 °C (-40 to +158 °F)	
Pollution degree	Degree 2, IEC 60664-1	
Corrosion protection	ISA-S71.04: G3	
Relative humidity	5 to 95 %, non-condensing	
Max ambient temperature	55 °C (131 °F), for vertical mounting in compact MTU 40 °C (104 °F)	
Protection class	IP20 according to IEC 60529	
Mechanical operating conditions	IEC/EN 61131-2	
EMC	EN 61000-6-4, EN 61000-6-2	
Overvoltage categories	IEC/EN 60664-1, EN 50178	
Equipment class	Class I according to IEC 61140; (earth protected)	
RoHS compliance	DIRECTIVE/2011/65/EN (EN 50581:2012)	
WEEE compliance	DIRECTIVE/2012/19/EU	

Compatibility		
Use with MTU	TU851	
Keying code	ED	

Dimensions		
Width	45 mm (1.77")	
Depth	102 mm (4.01"), 111 mm (4.37") including connector	
Height	119 mm (4.7")	
Weight	0.18 kg (0.4 lbs.)	

Related products



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