

DATA SHEET

D0820 Compact Product Suite hardware selector



The DO820 is an 8 channel 230 V a.c./d.c. relay (NO) output module for the S800 I/O. The maximum output voltage is 250 V a.c./d.c. and the maximum continuous output current is 3 A. 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 24 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

- 8 channels for 230 V a.c./d.c. relay Normal Open (NO) outputs
- 8 isolated channels
- Output status indicators
- OSP sets outputs to predetermined state upon error detection

General info	
Article number	3BSE008514R1
Туре	Digital Output
Signal specification	230 V a.c. / d.c. (5 - 250 V a.c./d.c.), 3 A
Number of channels	8
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	
Current limiting	Can be current limited by the MTU	
Maximum field cable length	600 meters (656 yards)	
Event recording accuracy	-0 ms / +1.3 ms	
Rated insulation voltage	250 V	
Dielectric test voltage	2000 V a.c.	
Power dissipation	Тур. 2.9 W	
Current consumption +5 V Modulebus	60 mA	
Current consumption +24 V Modulebus	140 mA	
Current consumption +24 V external	0	

Diagnostics		
Front LED's	F(ault), R(un), W(arning), O(SP), Channel 1-8 Status	
Supervision	24/12 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	-	
Marine certification	ABS, BV, DNV, LR	
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	TU811, TU813, TU831, TU836, TU837, TU851
Keying code	AD

Dimensions		
Width	45 mm (1.77")	
Depth	102 mm (4.01"), 111 mm (4.37") including connector	
Height	119 mm (4.7")	
Weight	0.23 kg (0.5 lbs.)	

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