

DO815

Compact Product Suite hardware selector



The DO815 is a 8 channel 24 V digital output module for the S800 I/O. The output voltage range is 10 to 30 V and the maximum continuous output current is 2 A @ 24 V. The outputs are protected against short circuits, and over load. The outputs are divided into two individually isolated groups with four output channels in each group. Each output channel consists of a short circuit and over load protected high side driver with open load detection (on active signal), EMC protection components, inductive load suppression, output status indication LEDs and optical isolation barrier.

Features and benefits

- 8 channels for 24 V d.c. current sourcing outputs
- 2 isolated groups of 4 channels with under voltage detection
- OSP sets outputs to predetermined state upon communication error
- Output status indicators and a channel wise error flag
- Short-circuit protection to ground and positive supply
- Over load protection
- Open load and short-circuit detection
- Two output fault operation modes: Automatic reset mode and Fault latching mode
- Inductive load driving capability
- Filament lamp load up to 10W

| General info | |
|----------------------|------------------------------------|
| Article number | 3BSE013258R1 |
| Type | Digital Output |
| Signal specification | 24 V d.c. (10 - 32 V d.c.), 2A |
| Number of channels | 8 |
| Signal type | High side driver, current limiting |
| HART | No |
| SOE | No |
| Redundancy | No |
| High integrity | No |
| Intrinsic safety | No |
| Mechanics | S800 |

| Detailed data | |
|-------------------------------------|--------------------------------------------|
| Isolation | Groupwise isolated from ground |
| Output load | < 0.25 Ω |
| Current limiting | Short circuit proof current limited output |
| Maximum field cable length | 600 meters (656 yards) |
| Event recording accuracy | -0 ms / +1.3 ms |
| Rated insulation voltage | 50 V |
| Dielectric test voltage | 500 V a.c. |
| Power dissipation | Typ. 4 W |
| Current consumption +5 V Modulebus | Typ. 120 mA, Max. 150 mA |
| Current consumption +24 V Modulebus | 0 |
| Current consumption +24 V external | 0 |

| Diagnostics | |
|----------------------------------|-------------------------------------------------------------------------|
| Front LED's | F(ault), R(un), W(arning), O(SP), Channel 1-8 Status, Channel 1-8 Fault |
| Supervision | Short circuit, over load, under voltage and open load |
| 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 | 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 | TU810, TU812, TU814, TU830 |
| Keying code | AA |

| Dimensions | |
|------------|----------------------------------------------------|
| Width | 45 mm (1.77") |
| Depth | 102 mm (4.01"), 111 mm (4.37") including connector |
| Height | 119 mm (4.7") |
| Weight | 0.2 kg (0.44 lbs.) |

Related products



TU814V1

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