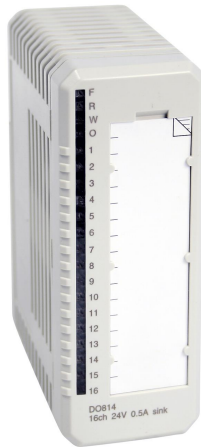


DO814

System 800xA hardware selector



The DO814 is a 16 channel 24 V digital output module with current sinking for the S800 I/O. The output voltage range is 10 to 30 volt and the maximum continuous current sinking is 0.5 A. The outputs are protected against short circuits and over temperature. The outputs are divided into two individually isolated groups with eight output channels and one voltage supervision input in each group. Each output channel consists of a short circuit and over temperature protected low side switch, EMC protection components, inductive load suppression, output state indication LED and optical isolation barrier. The process voltage supervision input give channel error signals if the voltage disappears. The error signal can be read via the ModuleBus.

Features and benefits

- 16 channels for 24 V d.c. current sinking outputs
- 2 isolated groups of 8 channels with process voltage supervision
- Output status indicators
- OSP sets outputs to predetermined state upon error detection
- Short-circuit protection to ground and 30 V
- Over-voltage and over-temperature protection

| General info | |
|----------------------|-----------------------------------|
| Type | Digital Output |
| Signal specification | 24 V d.c. (12-32 V d.c.), 0.5 A |
| Article number | 3BUR001455R1 |
| Number of channels | 16 |
| Signal type | Current sinking, current limiting |
| HART | No |
| SOE | No |
| Redundancy | No |
| High integrity | No |
| Intrinsic safety | No |
| Mechanics | S800 |

| Detailed data | |
|------------------------------------|--|
| Isolation | Groupwise isolated from ground |
| Current limiting | Short circuit proof current limited output |
| Maximum field cable length | 600 meters (656 yards) |
| Rated insulation voltage | 50 V |
| Dielectric test voltage | 500 V a.c. |
| Power dissipation | Typ. 2.1 W |
| Current consumption +5 V Modulebus | 80 mA |

| Diagnostics | |
|----------------------------------|---|
| Front LED's | F(ault), R(un), W(arning), O(SP), Channel 1-16 Status |
| Supervision | Process voltage, 1 per group |
| Status indication of supervision | Module Error, Module Warning, Channel error |

| Environment and certification | |
|--------------------------------------|---|
| CE mark | Yes |
| Electrical safety | IEC 61131-2, UL 508 |
| Hazardous Location | C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2 |
| Marine certification | ABS, BV, DNV-GL, LR, RS, CCS |
| Protection rating | IP20 according to IEC 60529 |
| Corrosive atmosphere ISA-S71.04 | G3 |
| Climatic operating conditions | 0 to +55 °C (Storage -40 to +70 °C), RH=5 to 95 % no condensation, IEC/EN 61131-2 |
| Pollution degree | Degree 2, IEC 60664-1 |
| 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) |
| Max ambient temperature | 55 °C (131 °F), for vertical mounting in compact MTU 40 °C (104 °F) |
| RoHS compliance | EN 50581:2012 |
| WEEE compliance | DIRECTIVE/2012/19/EU |

| Compability | |
|--------------------|--|
| Use with MTU | TU810, TU812, TU814, TU830, TU833 or TU838 |
| Keying code | BE |

Intrinsic Safety parameters

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

Related products



TU814V1



TU810V1



TU833



TU838



TU812V1



TU830V1

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