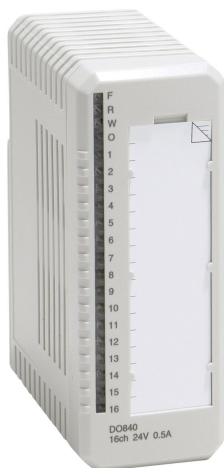


DO840

System 800xA hardware selector



This module has 16 digital outputs. The maximum continuous output current per channel is 0.5 A. The outputs are current limited and protected against over temperature. The outputs are divided into two groups with eight output channels and one voltage supervision input in each group. Each output channel consists of a current limited and over temperature protected high side driver, EMC protection components, inductive load suppression, output state indication LED and optical isolation barrier.

Features and benefits

- 16 channels for 24 V d.c. current sourcing outputs
- 2 isolated groups of 8 channels with process voltage supervision
- Advanced on-board diagnostics
- Output status indicators
- OSP sets outputs to predetermined state upon error detection
- Redundant or single applications
- Current limited and over-temperature protection

General info	
Type	Digital Output
Signal specification	24 V d.c. (19.2 - 32 V d.c.), 0.5 A
Article number	3BSE020838R1
Number of channels	16
Signal type	Current sourcing, current limiting
HART	No
SOE	No
Redundancy	Yes
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. 4.3 W
Current consumption +5 V Modulebus	130 mA
Current consumption +24 V Modulebus	0
Current consumption +24 V external	200 mA

Diagnostics	
Front LED's	F(ault), R(un), W(arning), O(SP), Channel 1-16 Status
Supervision	Process power 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	DNV-GL
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, TU842, TU843, TU852
Keying code	CE

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	0.15 kg (0.33 lbs.)

Related products



TU814V1



TU810V1



TU852



TU833



TU812V1



TU843



TU830V1



TU842

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