

DATA SHEET

## **D0840** 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	
Article number	3BSE020838R1
Туре	Digital Output
Signal specification	24 V d.c. (19.2 - 32 V d.c.), 0.5 A
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	Тур. 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 61010-1, UL 61010-2-201			
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 606641, 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	DIRECTIVE/2011/65/EN (EN 50581:2012)			
WEEE compliance	DIRECTIVE/2012/19/EU			

Compability				
Use with MTU	TU810, TU812, TU814, TU830, TU833, TU842, TU843, TU852			
Keying code	CE			

Dimensions		
Width 45 mm (1.77")		
Depth	102 mm (4.01"), 111 mm (4.37") including connector	
Height	119 mm (4.7")	
Weight	0.15 kg (0.33 lbs.)	

## **Related products**

	TU810V1	TU812V1
	TU814V1	TU830V1
Fre Poor	TU833	TU842
	TU843	TU852



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