MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

ABB

DO890

INTRINSICALLY SAFE OUTPUT MODULE

Used with the applicable S800 I/O configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: ABB Compact Product Suite Catalog 3BSE062980; exact-model ABB hardware-selector specifications

S800 I/O modules selection guide

	NAMUR inputs	Binary 24 V	Binary 48 V	Binary 110 V	Binary 230 V	Binary Relay	Analog Unipolar	Analog Bipolar	Temperature RTD	Temperature T/C	SOE	HART	Intrinsic safety	Redundant	High integrity
I/O Features S800															
Digital input modules															
DI810		•													
DI811			•												
DI814		•													
DI818		•													
DI820				•											
DI821					•										
DI825				•							•				
DI828				•											
DI830		•									•				
DI831			•								•				
DI840		•									•			•	
DI880		•									•			•	•
DI890	•												•		
Digital output modules															
DO810		•													
DO814		•													
DO815		•													
DO818		•													
DO820						•									
DO821						•									
DO828						•									
DO840		•												•	
DO880		•												•	•
DO890													•		
Pulse input modules															
DP820		•													
DP840	•	•												•	
Analog input modules															
AI810							•								
AI815							•					•			
AI820								•							
AI825								•							
AI830A									•						
AI835A										•					
AI843										•				•	
AI845							•					•		•	
AI880A							•					•		•	•
AI890							•						•		
AI893									•	•			•		
AI895							•					•	•		
Analog output modules															
AO810V2							•								
AO815							•					•			
AO820								•							
AO845A							•					•		•	
AO890							•						•		
AO895							•					•	•		
S800L modules															
DI801		•													
DI802				•											
DI803					•										
DO801		•													
DO802						•									
AI801							•								
AO801							•								

S800 I/O
S800 I/O Modules

Digital Output Modules		Article no.	
	**DO810 Digital Output 24 V 16 ch.** Isolated in two groups of 8 channels. 0.5A, Short circuit proof. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE008510R1	
	DO814 Digital Output Current 16 ch. Isolated in two groups of 8 channels. 0,5A , shortcut circuit proof. Current sinking. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU838.	3BUR001455R1	
	DO815 Digital Output 24V 8 ch. Isolated in two groups of 4 channels. 2.0A short circuit proof. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE013258R1	
	DO818 Digital Output 24V 32 ch. Isolated in two groups of 16 channels. 0.5A, Short circuit proof. Use Module Termination Unit TU818, TU819, TU830.	3BSE069053R1	
	DO820 Digital Output Relay 8 ch. 24-230V a.c../d.c. 3A, cos phi>0.4, d.c. 42W. Individually galvanic isolated channels. Use Module Termination Unit TU811, TU813, TU831, TU836, TU837, TU851.	3BSE008514R1	
	DO821 Digital Output Relay 8 ch. 24-230V a.c./d.c.. 3A, cos phi>0.4, d.c. 42W, normal closed. Individually galvanic isolated channels. Use Module Termination Unit TU811, TU813, TU831, TU836, TU837, TU851.	3BSE013250R1	
	DO828 Digital Output 16 ch. Individually galvanic isolated channels. 5-250V a.c and 5-125V d.c, max 2A. Use Module Termination Unit TU851.	3BSE069055R1	
	DO840 Digital Output 24V S/R 16 ch. Isolated in two groups of 8 channels. Single or redundant. 0.5A. Advanced On-board diagnostics. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU842, TU843, TU852.	3BSE020838R1	
	DO890 Digital Output IS 4 ch. Intrinsic Safety Interface. Individually galvanic isolated channels. Use Module Termination Unit TU890 or TU891.	3BSC690074R1	

S800 I/O
Pulse Counting Modules

Pulse Counting Modules		Article no.	
	**DP820 Pulse Counter RS-422** 2 ch bidirectional pulse counters and frequency measurement, current, 5V, (12v), 24V. 1,5MHz Rated isol 50V Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE013228R1	
	DP840 Pulse Counter S/R 8 ch. Pulse Counter or Frequency Measurement Module. Redundant or single. 0.5Hz - 20kHz. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU842, TU843, TU844, TU845, TU852, TU854.	3BSE028926R1	