S800 I/O

Product Data Sheet

DO890

Intrinsically safe output module

OUTPUT CHANNELS	NOMINAL OUTPUT VOLTAGE	NOMINAL OUTPUT CURRENT	OUTPUT LOAD RANGE
4	**11 V**	**40 mA**	**100-5000 ohm**

ABB DO890 is a four-channel S800 intrinsically safe digital output module for the documented 11 V, 40 mA output circuits. Its channels are individually isolated and include current-limited short-circuit protection.

01 TECHNICAL DATA

Output channels	4
Nominal output voltage	11 V
Nominal output current	40 mA
Output load range	100-5000 ohm
Channel isolation	Individual to channels and common ground
Short-circuit behavior	Current-limited output
Rated insulation voltage	50 V
Dielectric test voltage	500 V AC
Power dissipation	4.4 W
5 V ModuleBus current	80 mA typical; less than 150 mA maximum

02 ADDITIONAL PRODUCT DATA

External 24 V current	250 mA typical; less than 360 mA maximum
Short-circuit detection	Less than 20 ohm
Open-circuit detection	Greater than 100 kohm
Fault-sense current	Less than 4 mA
Mechanical keying	AB

03 PRODUCT FUNCTION

The module supervises internal process supply and detects open- and short-circuit conditions. TU890 is used for the specified Ex arrangement and TU891 for the corresponding non-Ex termination; hazardous-area use requires the complete approved wiring and entity conditions.

04 SYSTEM COMPATIBILITY

The module supervises internal process supply and detects open- and short-circuit conditions. TU890 is used for the specified Ex arrangement and TU891 for the corresponding non-Ex termination; hazardous-area use requires the complete approved wiring and entity conditions.

05 REFERENCE

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

AMIKON PRODUCT SUPPORT

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