SAFETY MANAGER SDO-0424

Product Data Sheet

FC-SDO-0424 V1.4

Four-channel safety digital output module

OUTPUT CHANNELS	OUTPUT SIGNAL	MAXIMUM CHANNEL CURRENT	MAXIMUM MODULE LOAD
4, arranged as two groups of two	**24 V DC solid-state source**	**2 A**	**6 A**

Honeywell FC-SDO-0424 V1.4 is a conformal-coated Safety Manager safety digital-output module with four 24 V DC sourcing channels arranged in two groups. It supports up to 2 A on an individual channel, with a 6 A combined module-load limit and short-circuit-proof output circuitry.

01 TECHNICAL DATA

Output channels	4, arranged as two groups of two
Output signal	24 V DC solid-state source
Maximum channel current	2 A
Maximum module load	6 A
Maximum lamp load	417 mA (10 W)
Maximum load capacitance	1 uF
On-state voltage drop	<1.3 V DC at 2 A
Off-state leakage current	<0.1 mA
5 V DC supply consumption	12 mA
Internal 24 V DC consumption	35 mA

Honeywell Safety Manager EP-SM.MAN.6284, Release151, pp.388-393; R162 section10.9, pp.513-522.

02 ADDITIONAL PRODUCT DATA

External 24 V DC consumption	50 mA, excluding output load
Watchdog input current	8 mA
Mechanical key coding	A13 and C5
Output circuit protection	Short-circuit proof
Chassis space requirement	4 HP, 3U

03 PRODUCT FUNCTION

The output stage includes suppression diodes for inductive loads and self-tests the channel and group de-energizing paths. A resistive lamp load is limited to 417 mA or 10 W, the maximum load capacitance is 1 uF, and the on-state voltage drop is below 1.3 V DC at 2 A.

04 SYSTEM COMPATIBILITY

The manufacturer connection example requires internal and external 24 V power at both output groups to avoid self-test fault indications. Preserve the connections at d6/z6, d8, d30/z30 and d32/z32 and use the matching FTA or interconnection arrangement.

05 REFERENCE

Honeywell Safety Manager EP-SM.MAN.6284, Release151, pp.388-393; R162 section10.9, pp.513-522.

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