



16 K-Chief 700

16.25.03 RDIO420S

Ref:

Document name: RDIO420S Hardware Module Description
Document number: 323936B

DMS no: 1088815A

Objectives



- Know what kind of signals/equipment that can be connected to this module.
- Know the limitation of the module.

RDIO420S



Used in Safety Applications

- 32 DI or DO channels
 - 4 blocks of 8 channels
 - All 8 channels on one block are configured as same type
- Power Down Unit (PDU)
 - For fixed channel groups
- Final Output Stage Test (FOST)
 - Test of field relays
- Loop monitoring of DI and DO signals
- Configurable Channel Fail-safe
- Module temp. monitoring
- Supply voltage monitoring



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Used in Safety Applications

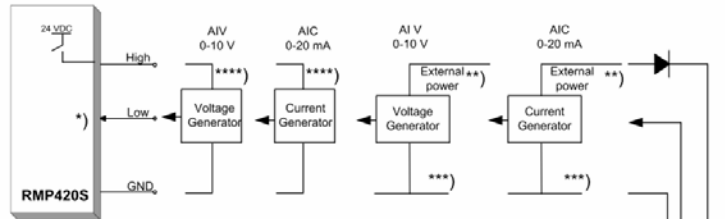
- 32 AI Channels
 - Analog Input Current
 - Analog Input Voltage
- Loop Monitoring
- Module temp. monitoring



Signal Loop Types

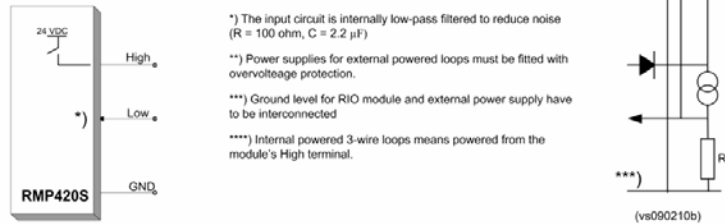


CHANNEL 1 - 32



Redundant IO module topology

CHANNEL 1 - 32



- *) The input circuit is internally low-pass filtered to reduce noise (R = 100 ohm, C = 2.2 µF)
- **) Power supplies for external powered loops must be fitted with overvoltage protection.
- ***) Ground level for RIO module and external power supply have to be interconnected
- ****) Internal powered 3-wire loops means powered from the module's High terminal.

(vs090210b)

Exercises

- RDIO420S
- RMP420S



Summary



RDIO420S

- Safety module
- 32 configurable DI or DO (8 channel pr.group)
- Power down unit
- FOST
- Monitoring of power and temperature
- Detection Open loop/short circuit.

RMP420S

- Analog Input (4-20 mA or 0-10V)
- Internal or external loop power
- Monitoring of power and temperature
- Detection Open loop/short circuit.