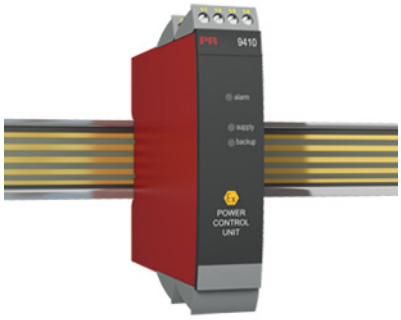
PERFORMANCE MADE SMARTER



Power control unit

9410

– Distributes supply voltage to the power rail
– Optional connection of backup supply
– Approved for installation in I.S. / Ex zone 2 / Div. 2
– Optional redundant supply for the power rail
– Must be installed on power rail, PR type 9400

Application and advanced features

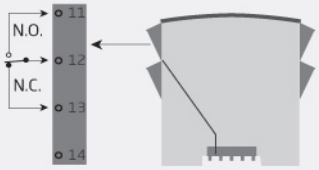
- The power control unit detects errors from any of the devices mounted on the power rail and transmits a collective alarm to the control system via the internal status relay.
- Optional connection of two power supplies - a primary supply and a backup supply.
- Redundant supply for the power rail can be obtained by mounting two 9410 devices connected to 2 separate power supplies (e.g. PR 9420).

Technical characteristics

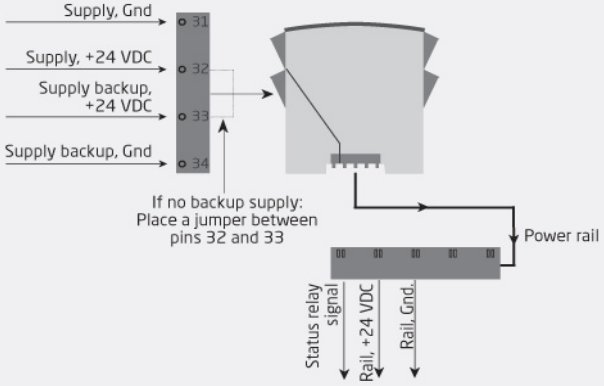
- The status relay will be energised when the following three conditions are met: 1. Supply voltage is present on pins 31 and 32. 2. Backup supply voltage is present on pins 34 and 33. (If the backup supply is not in use, a jumper must be placed between pins 32 and 33 - the jumper is delivered with the device). 3. There are no error messages from the devices connected to the power rail.
- When a collective alarm is activated via the power rail, the status relay in the 9410 will be de-energized (pins 11, 12 and 13).
- Two green front LEDs indicate connection of supply and backup.
- A red LED indicates error status.

Connections

Device status relay from power rail



Power connections



Zone 2 / FM Cl. 1, div. 2 or safe area

Order:

Type
9410

Environmental Conditions

Specifications range..... -20°C to +60°C
Storage temperature..... -20°C to +85°C
Relative humidity..... < 95% RH (non-cond.)
Protection degree..... IP20

Mechanical specifications

Dimensions (HxWxD)..... 109 x 23.5 x 104 mm
Weight approx..... 140 g
Wire size..... 0.13...2.08 mm^2 AWG 26...14 stranded wire
Screw terminal torque..... 0.5 Nm
Vibration..... IEC 60068-2-6 : 2007
Vibration: 2...13.2 Hz..... ±1 mm
Vibration: 13.2...100 Hz..... ±0.7 g

Common specifications

Max. power consumption..... 96 W
Internal consumption..... 2 W (max.)
Efficiency..... > 97.9%

Input specifications

Supply voltage..... 21.6...26.4 VDC (double / reinforced isolation)
Backup supply..... 21.6...26.4 VDC

Output specifications

Status relay
Max. voltage..... 250 / 30 VDC
Max. current..... 2 AAC / 2 ADC
Max. AC power..... 500 VA / 60 W

Output voltage..... Input voltage-0.5 VDC (@ 4 A)
Output power..... 96 W (max.)
Output current..... 4 A (max.)
Output ripple..... Same as input ripple

Approvals

General approvals
EMC..... EN 61326-1
LVD 2006/95/EC..... EN 61010-1
UL..... UL 61010-1
EAC TR-CU 020/2011..... EN 61326-1

Ex / I.S.
ATEX 2004/108/EC..... KEMA 07ATEX0152 X
IECEx..... KEM 08.0025X
FM..... 3034431-C
INMETRO..... NCC 12.1308 X

Marine approval
DNV Marine..... Stand. f. Certific. No. 2.4