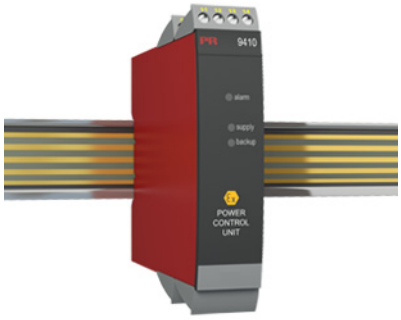


Power control unit

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

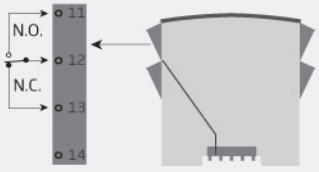
- The power control unit detects errors from any of the devices mounted on the power rail and transmits a collective alarm to the control system via the internal status relay.
- Optional connection of two power supplies - a primary supply and a backup supply.
- Redundant supply for the power rail can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

Technical characteristics

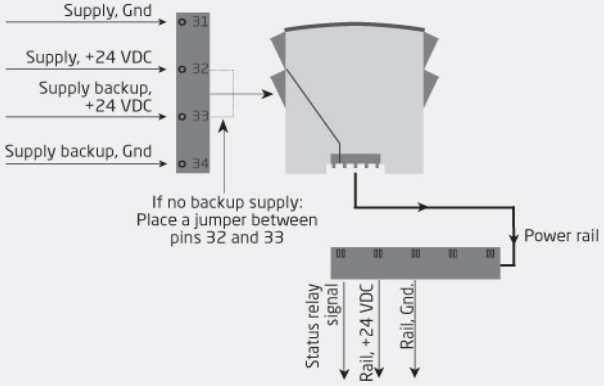
- The status relay will be energised when the following three conditions are met: 1. Supply voltage is present on pins 31 and 32. 2. Backup supply voltage is present on pins 34 and 33. (If the backup supply is not in use, a jumper must be placed between pins 32 and 33 - the jumper is delivered with the 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

For pricing or any further information, please contact Omni Instruments Ltd.

Measurement and data acquisition solutions

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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. required power	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

Observed authority requirements

EMC	2014/30/EU
LVD	2014/35/EU

Approvals

ATEX 2014/34/EU	KEMA 07ATEX0152 X
IECEx	KEM 08.0025X
FM	3034431-C
INMETRO	NCC 12.1308 X
UL	UL 61010-1
EAC	TR-CU 020/2011
DNV-GL Marine	Stand. f. Certific. No. 2.4

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