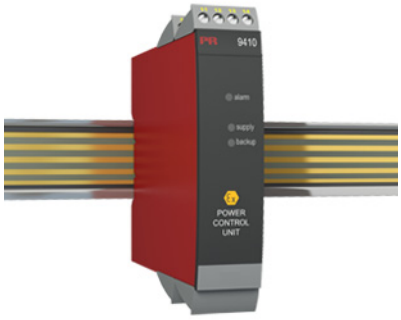
PERFORMANCE MADE SMARTER



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

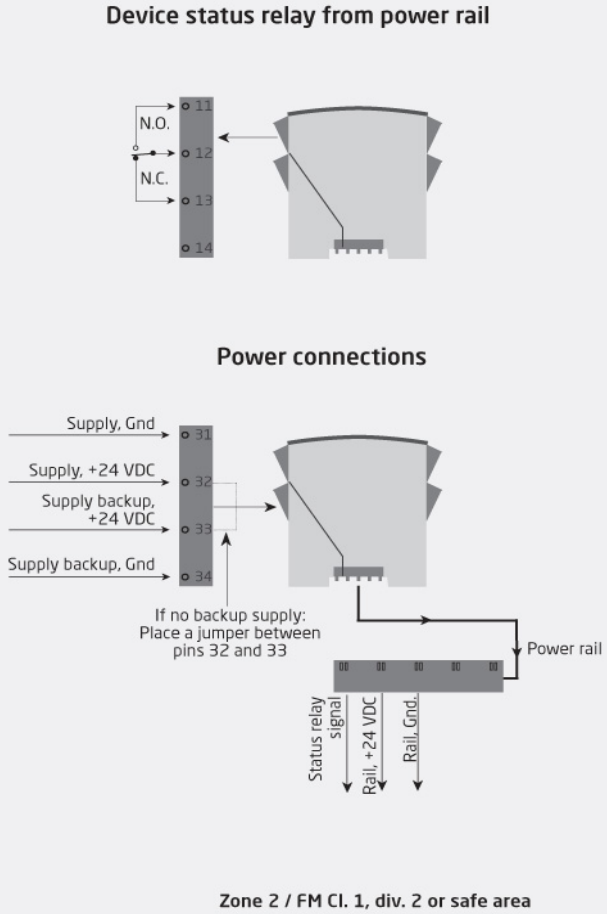
Application and advanced features

- 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 no. 9421).

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.

Applications



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Order

Type	Ex approvals	
9410	ATEX, IECEx, FM, INMETRO, CCC, EAC-Ex, UKEX	: -
	UL 913, ATEX, IECEx, FM, INMETRO, CCC, EAC-Ex, UKEX	: -U9
	KCs, ATEX, IECEx, FM, INMETRO, CCC, EAC-Ex, UKEX	: -KCs

Example: 9410-U9

Environmental Conditions

Operating temperature..... -20°C to +60°C
Storage temperature..... -20°C to +85°C
Relative humidity..... < 95% RH (non-cond.)
Protection degree..... IP20
Installation in..... Pollution degree 2 & meas. / overvoltage cat. II

Mechanical specifications

Dimensions (HxWxD)..... 109 x 23.5 x 104 mm
Weight approx..... 140 g
DIN rail type..... DIN EN 60715/35 mm
Wire size..... 0.13...2.08 mm^2 AWG 26...14 stranded wire
Screw terminal torque..... 0.5 Nm
Vibration..... IEC 60068-2-6
2...13.2 Hz..... ±1 mm
13.2...100 Hz..... ±0.7 g

Common specifications

Supply
Max. required power..... 96 W
Internal power dissipation..... 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 & UK SI 2016/1091
LVD..... 2014/35/EU & UK SI 2016/1101
ATEX..... 2014/34/EU & UK SI 2016/1107
RoHS..... 2011/65/EU & UK SI 2012/3032
EAC..... TR-CU 020/2011
EAC Ex..... TR-CU 012/2011
EAC LVD..... TR-CU 004/2011

Approvals

ATEX..... KEMA 07ATEX0152 X
IECEx..... KEM 08.0025X
UKEX..... DEKRA 21UKEX0169X
c FM us..... FM19US0056X /FM19CA0029X
INMETRO..... DEKRA 16.0007 X
c UL us, UL 61010-1..... E314307
c UL us, UL 913..... E233311 (only 9410-U9)
KCs..... 21_AV4BO_0185X (only 9410-KCs)
CCC..... 2020322303003230
EAC Ex..... RU C-DK.HA65.B.00355/19
DNV Marine..... TAA00000JD
ClassNK..... TA18527M