



## Power supply

### 9420

- Supply voltage 85...132 VAC or 187...264 VAC
- Optional connection of backup supply
- Approved for installation in I.S. / Ex zone 2 / Div. 2
- Active signal output
- Optional parallel connection



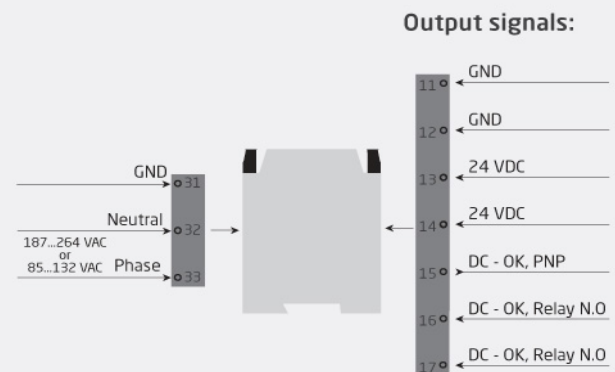
#### Application

- 2 DC-OK outputs for monitoring of device functions.
- Floating signal contacts and an active DC-OK signal are available.
- The DC-OK LED enables visual evaluation of the function locally in the process.

#### Technical characteristics

- The 85...264 VAC connection is made by using pin no. 31, 32 and 33
- The 24 VDC connection is made using the "+" and "-" connections.
- 22 VDC  $\pm$ 2 VDC is applied on "DC-OK" - pin 15, 20 mA max. This signal output is referenced to -Vout (gnd.) and signals when the output voltage drops between 18 and 22 VDC.
- Maximum 5 devices of the same type can be connected in parallel to enable increased output power.
- The DC-OK LED is a two colour LED which indicates the status of the output and enables visual evaluation of the function locally in the control cabinet.
- DC-OK LED green – normal operation. DC-OK LED red – output failure if input mains is still present.

#### Connections



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

Order:

Type
9420

**Environmental Conditions**

Specifications range.....	-10°C to +60°C
Storage temperature.....	-20°C to +85°C
Relative humidity.....	< 95% RH (non-cond.)
Protection degree.....	IP20

**Mechanical specifications**

Dimensions (HxWxD).....	110 x 54 x 114 mm
Weight approx.....	700 g
Wire size.....	0.5...2.50 mm <sup>2</sup> / AWG 24...12 stranded wire
Screw terminal torque.....	0.5 Nm
Vibration.....	IEC 60068-2-6: 1 g, 10...55 Hz, 3 axis sine sweep
Vibration.....	Shock, IEC 60068-2-27: 15 g, 3 axis half sine, 11 ms

**Common specifications**

Max. required power.....	350 VA
Fuse.....	4 A H / 250 VAC
Inrush current, max. (at 25°C, <2 ms).....	25.0 AAC
Efficiency.....	Typ. 88%
Thermal overload protection.....	Automatic restart
Effect of supply voltage change.....	< 0.5% (Vin. min...Vin. max.)
Temperature coefficient.....	0.02%/°C

**Input specifications**

Supply voltage.....	187...264 VAC or 85...132 VAC (auto-range)
Frequency.....	50...60 Hz

**Output specifications**

Output voltage.....	24 VDC
Output power.....	120 W (max.)
Output current.....	5 A
Load stability (10%...max. load).....	< 0.5 %
Output ripple.....	≤ 200 mV pk-pk (Vin nom. and Iout max.)

**Observed authority requirements**

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

**Approvals**

ATEX 2014/34/EU.....	BUREAU VERITAS 08-002X
CSA.....	1893479
UL.....	UL 508