- (13) Appendix to
- (14) EC-Type Examination Certificate BVS 14 ATEX E 067 X
- (15) 15.1 Subject and type

Electronic unit with integrated barrier type VC-PLUS

Non-intrinsically safe input circuit

## 15.2 Description

The electronic unit which is installed outside the explosive atmosphere is used for supplying power to the sensor and reading the sensor signals.

The limit switch necessary for this is a component of the electronic unit which is safely fastened into a rail enclosure. Up to two sensor are connected via the terminal strips X2 and X3.

## 15.3 Parameters

15.3.1

	Nominal voltage Max. voltage	U <sub>m</sub>	AC	24 250	<b>V</b>
15.3.2 15.3.2.1	Intrinsically safe output circuits (terminal strips X2 and X3) Supply circuit (V <sub>out+</sub> and V <sub>out+</sub> terminals 2 and 3 or brown & white wire)				
	Voltage Current Power	Uo No Po	////////pc	6.16 156 240	V mA mW
15.3.2.2	Signal circuit (Sig/and/GND/, terminals 4 and 1/or/yellow/&/green wires)				
	Voltage Current Power	Ú°	//////bc	3.78 191 180	mA mW
15.3.2.3	Supply and signal circuits interconductions of the supply and signal circuits interconduction of the supply and signal circuits in the suppl	onnected U. I. P.	/DC	5.36 347 464	V mA mVV
		///////////////////////////////////////	///////////////////////////////////////		///

Ta

μF

μH

100

400

-20 °C to +60 °C

## (16) Test and assessment report

15.3.3

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Max. external capacitance

Ambient temperature range

Max. external inductance

15.3.2.4 The least favourable values of Uo and Io result in the following parameters:

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## (17) Special conditions for safe use

- 17.1 The circuits of the electronic unit are earthed by the assembly (fastened to the hat rail). At the point of installation a connecting element must be provided for an earth wire. This connecting element must allow for a proper connection of a cable with a cross section of minimum 4 mm<sup>2</sup>.
- 17.2 Along the external intrinsically safe circuits equipotential bonding must be provided.

We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH 44809 Bochum, 25.06.2014 BVS-Schu/Ar E 3839/14

Certification body

Special services unit