

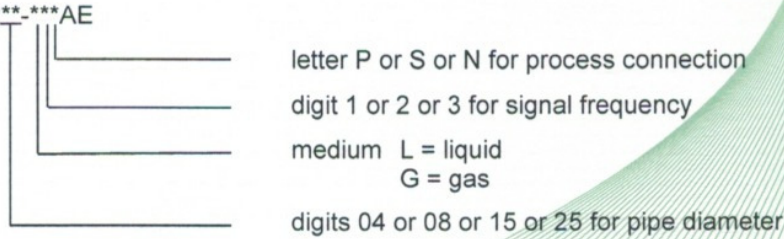


- (13) Appendix to
- (14) **EC-Type Examination Certificate  
BVS 14 ATEX E 057 X**

- (15) 15.1 Subject and type  
Sensor type FLP\*\*-\*\*\*AE

In the full marking, the asterisks will be replaced by digits and letters which identify the individual variants.

Type FLP\*\*-\*\*\*AE



15.2 Description

This sensor is used for measuring the flow and converting the value measured into an electric signal.

The sensor is mounted into a pipe in such a manner that the inside of the sensor (measuring component) has to be classified as an area of EPL Ga, and the outside of the sensor (incl. the enclosure accommodating the electronic unit) has to be classified as an area of EPL Gb. The electrical connection of the sensor is done by a permanent cable of up to 50 m length.

15.3 Parameters

Respective values for  
 Circuit 1 (brown & white wires) and  
 Circuit 2 (yellow & green wires):

Voltage	$U_i$	DC	10	V
Current	$I_i$		200	mA
Power	$P_i$		0.5	W

Both circuits are internally interconnected which results in the following parameters:

Voltage	$U_i$	DC	10	V
Current	$I_i$		400	mA
Power	$P_i$		1	W
Effective internal capacitance (incl. 50 m cable)	$C_i$		2.01	$\mu F$
Effective internal inductance (incl. 50 m cable)	$L_i$		1	$\mu H$
Ambient temperature range	$T_a$		-20 °C to +60 °C	

- (16) Test and assessment report  
BVS PP 14.2127 EG, as of 06.06.2014



(17) Special conditions for safe use

Along the external intrinsically safe circuits equipotential bonding must be provided between the mounting points of the power supply units and the sensor of type FLP\*\*-\*\*\*AE.

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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

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Certification body

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Special services unit