Alexander Wiegand SE & Co. KG

ZUL DOKUM IS SYSTEM DESCRIPTION IS-3 + IS BARRIER

Drawing no.
14142352.01
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Proof of intrinsic safety for intrinsically safe pressure transmitters (for linear sources)

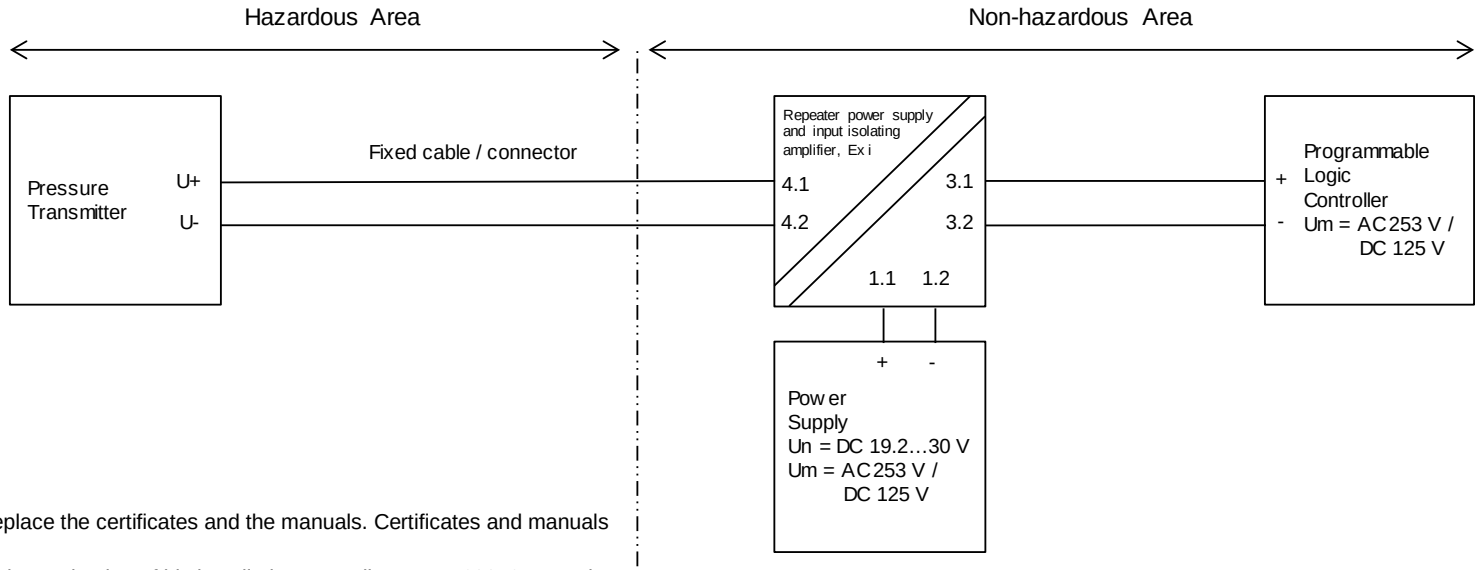
Pressure transmitter		+ fixed cable	/ + cable 14139682 (Field case)	Repeater power supply and input isolating amplifier, Ex i		
Model	IS-3			**Model**	IS Barrier	
Manufacturer	WIKA Alexander Wiegand SE & Co. KG			**Manufacturer**	WIKA Alexander Wiegand SE & Co. KG	
Certification	BVS 14 ATEX E 035 X (2nd release)			**Certification**	BVS 15 ATEX E 099 X	**Proof**
Marking and temperature range	refer to label *4)		cable: -30…80 °C	**Marking and temperature range**	refer to label	**+ fixed cable / + cable 14139682 (Field case)**
Ui	DC 30 V			**Uo**	DC 25.2 V	Ui ≥ Uo -> complies
Ii	100 mA			**Io**	93 mA	Ii ≥ Io -> complies
Pi	800 mW (for dust see manual)			**Po**	587 mW	Pi ≥ Po -> complies
Li	negligible	+ 2 µH/m	+ 2 µH/m	**Lo**	2 mH (Group IIC)	Li ≤ Lo -> complies for cable length ≤ 450 m *1) *3)
Ci	16.5 nF	+ 0.2 nF/m	+ 0.2 nF/m	**Co**	107 nF (Group IIC)	Ci ≤ Co -> complies for cable length ≤ 450 m *2) *3)

*1) IS-3 with connector: Li + Lcable ≤ Lo

*2) IS-3 with connector: Ci + Ccable ≤ Co

*3) If you are using an IS-3 transmitter version with connector output, use your cable data for Lcable and Ccable.

*4) Temperature range for electrical output angular connector with plug connector type GDME 3013: -30…+85 °C.



This document does not replace the certificates and the manuals. Certificates and manuals must be observed.
The user is responsible of the evaluation of his installation according to EN 60079-14 and EN 60079-25.
The user has to take suitable measures to fulfill EN 60079-14, 9.3.9 since cable 14139682 does not comply with subsection a) of this clause.
The user is responsible of the evaluation of the suitability of plug connectors.

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