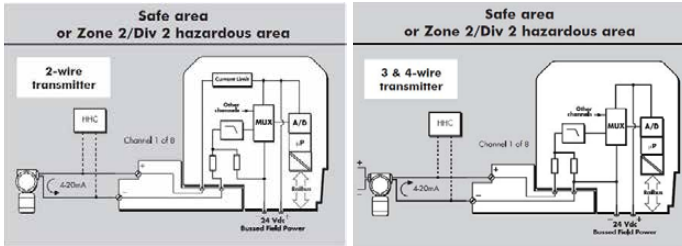## SafetyNet Analog Input Module

SafetyNet Analog Input Module features:

- 8 single ended 4-20mA input channels
- Certified for use in SIL 2 safety applications
- Non-incendive field circuits
- 2-, 3- or 4-wire transmitters
- HART pass-through, acquisition and status reporting[†]
- 24 VDC Bussed Field Power required from 8914-PSAC

	8810-HI-TX
Product Name	4-20 mA Analog Input Module with HART
Lifecycle Status	Active
Inputs	
Number of Channels	8, single-ended
Nominal Signal Range (span)	4 to 20mA
Full Signal Range	0.25 to 24mA
Line Fault Detection:	
Short Circuit Current	> 23.5mA
Open Circuit Current	< 0.5mA
Output Voltage (@ 20mA)	10.2V (min.)
Output Current	28mA (max.)
Accuracy (at 25°C)	± 0.1% of span
Temperature Coefficient	38 ppm/C
Resolution	16 bits
Repeatability	0.05% of span
Data format	16-bit unsigned (0-25mA = 0-65,535)
HART data format	IEEE754 floating point
Isolation (any channel to Railbus)	250 VAC RMS
Isolation (between channels)	none
Configurable Parameters	
Alarms	high, high-high, low and low-low
Alarm Deadband (hysteresis)	user defined value
Input Filter Time Constant	user defined value
Input Dead Zone	user defined value
Drive on Fault State	disabled /upscale /downscale
HART Variable and Status Reporting	enable /disable
Response Time	
Signal Change to Availability on Railbus:	
4– 20 mA Mode	25ms (max.)
HART Mode	0.75s per channel
Hazardous Area Specification	
Protection Technique	EEx nA [nL] IIC T4
Location (FM and CSA[‡])	ss 1, Div.2, Grps A,B,C,D T4
FM Non-incendive Field Wiring Parameters (each channel)	Voc = 28.7V; Isc = 33mA
Gas Groups A, B	Ca = 0.17μF; La = 11mH
Gas Group C	Ca = 0.51μF; La = 33mH
Gas Group D	Ca = 1.36μF; La = 88mH
Power Supplies	
System Power Supply	50mA (typical), 70mA (max.)
Bussed Field Power Supply	350mA (2-wire TX max.), 110mA (4-wire TX max.)
Module Key Code	A1
Module Width (mm)	42
Weight (g)	200

For recommended and compatible Field Terminals, see Field Terminal - Specification and Selection Guide.

[†]The first release of SafetyNet will not have full HART capability, contact GE for further information.

[‡]CSA with non-incendive field terminal, subject to conditions in CSA certificate.)