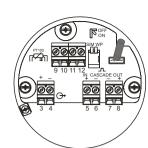


TERMINAL COMPARTMENT B



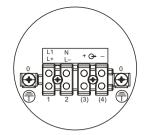
Intrinsically safe circuits Entity Parameters		Group A, B (IIC)	Group C, D (IIA, IIB)	
Signal output + -	not connected			
PT100	Uo/Voc = 8.4 V Io/Isc = 8.3 mA Po = 17.5 mW Ri = 1012 Ω	Co/Ca = 5.2 μF Lo/La = 400 mH	Co/Ca = 43 μF Lo/La = 400 mH	
Cascade out	Uo/Voc = 8.4 V Io/Isc = 19.2 mA Po = 40.3 mW Ri = 439 Ω	Co/Ca = 5.1 μF Lo/La = 69 mH	Co/Ca = 42 μF Lo/La = 199 mH	
	Only for connection to Gammapilot FMG60 signal circuit "Cascade in"			
Cascade in	Ui/Vmax = 8.4 V Ii/lmax = 19.2 mA Pi = 40.3 mW Ci = 0 Li = 67 µH			
T -	Only for connection to Gammapilot FMG60 signal circuit "Cascade out"			
Connection for FHX40	Uo/Voc = 4.7 V Io/Isc = 37.7 mA Po = 44.3 mW	For connection to the CSA approved intrinsically safe Endress+Hauser display FHX40 with associated cable. Observe Installation Drawing 960411-2006.		
	proved A193 with			

INTRINSICALLY SAFE (Entity) Class I, Div. 1, Groups A, B, C, D or Zone 1, IIC

- CSA certified apparatus must be installed acc. to manufacturer instructions. Install per Canadian Electrical Code (CEC). WARNING: Substitution of components may impair intrinsic safety.
- Control room equipment must not use or generate over 250 V.
 Wiring: Use cables not subject to short circuiting.
- Use wires suitable for 5 K above surrounding ambient.

 6. The maximum permissible values of voltage and current as well as the maximum permissible external capacitance and inductance are shown in
- the table above. For entity installation use CSA certified intrinsic safety barrier or other associated equipment that satisfy the following conditions:
- Uo/Voc ≤ Ui/Vmax; Io/Isc ≤ Ii/Imax; Co/Ca ≥ Ci + Ccable; Lo/La ≥ Li + Lcable.
- Install barrier / associated equipment in accordance to the manufacturer instructions.
- Where two ore more IS circuits leave the enclosure through a common conduit entry, these circuits must be separated from each other by
- grounded shields.
 [ia] defines "Associated Equipment"

TERMINAL COMPARTMENT A



Supply Circuit					
	Terminal	Supply Voltage			
AC type	L1 N	90250 VAC, 50/60 Hz			
DC type	L+ L-	1836 VDC			
Signal Circuit					
Type: FMG60-**D1****	+ -	420 mA/HART (active) The detector ensures galvanic isolation up to a maximum of 250 VAC between the signal circuit and any other circuit.			

EXPLOSION PROOF

Class I, Div. 1, Groups A, B, C, D or Zone 1, IIC

- Install per Canadian Electrical Code (CEC).
- 2. Control room equipment must not use or generate over 250 V.

 3. Do not open the terminal compartment A if the supply voltage is switched on and a combustible atmosphere is present. If a combustible atmosphere is present, wait 3 minutes after switching off the supply
- voltage, before opening the cover.

 Use supply wires suitable for 5 K above surrounding ambient.

 Sealing plugs of the terminal compartment A must not be exchanged with those of
- the terminal compartment B.
 In Division 1: Seal not required.
- In Zone 1: Seal required within 2"!

Class II, Div. 1, Groups E, F, G, Class III

- Install per Canadian Electrical Code (CEC).
- Use a dust tight seal at the conduit entry in Class II an III locations.

 Do not open the terminal compartment A if the supply voltage is switched on and a combustible atmosphere is present.
- If a combustible atmosphere is present, wait 3 minutes after switching off the supply voltage, before opening the cover.

 4. Use supply wires suitable for 5 K above surrounding ambient.

	Permissible ambient temperature	Temperature class
Detector without water cooling or Detector with water cooling out of operation	Detector with Nal crystal scintillator: -40°C+60°C Detector with plastic scintillator: -40°C+60°C	Т6
Detector with water cooling in operation	At the pipe housing (inside the water cooling): Detector with Nal crystal scintillator: -40°C+60°C Detector with plastic scintillator: -40°C+60°C At the compartment housing: -40°C+75°C	Т6

ZD207F-C/00/en/05.09 CCS/FM6.0 CSA/08.08.08



CSA Control Drawing 960007343 C

