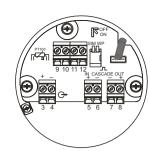


TERMINAL COMPARTMENT B



Intrinsically s Entity Param			Group A, B (IIC)	Group C, D (IIA, IIB)		
420 mA/ HART (active) *1	+ -	Uo/Voc = 21.2 V lo/Isc = 92 mA Po = 479 mW Ri = 235 Ω	Co/Ca = 169 nF Lo/La = 4 mH	Co/Ca = 1.2 μF Lo/La = 15 mH		
		Ui/Vmax = 30 V li/lmax = 13 mA Pi = 390 mW Ci = 13.4 nF Li = 0				
PT100	PT100	Uo/Voc = 8.4 V lo/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 lo/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/Imax = 19.2 mA Pi = 40.3 mW Ci = 0 Li = 67 µH				
		Only for connection to Gammapilot FMG60 signal circuit "Cascade out"				
Connection for FHX40	(B)	Uo/Voc = 4.7 V Io/Isc = 37.7 mA Po = 44.3 mW	intrinsically safe E display FHX40 wit	connection to the CSA approved nsically safe Endress+Hauser lay FHX40 with associated cable. lerve Installation Drawing 411-2006.		
		This circuit may also be Endress+Hauser Service associated connection Observe Installation Dr	ubox FXA193 with			
*1 only available at the version FMG60-**E******						

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

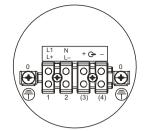
- CSA certified apparatus must be installed in accordance with manufacturer instructions. Install per Canadian Electrical Code (CEC).

 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.
- 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 \le Ui/Vmax: Io/Isc \le Ii/Imax:
- Co/Ca ≥ Ci + Ccable; Lo/La ≥ Li + Lcable.
- Install barrier / associated equipment in accordance to the manufacturer's instruction.

 Do not interconnect the 4...20 mA/HART signal circuits of detectors
- (e.g. within a cascade set).
- 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.
- 10. [ia] defines "Associated Equipment".

TERMINAL COMPARTMENT A



Supply Circuit	supply Circuit				
	Terminal	Supply Voltage			
AC type	L1 N	90250 VAC, 50/60 Hz			
DC type L+ L-		1836 VDC			
Signal Circuit					
	+ -	not connected			

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

- Install per Canadian Electrical Code (CEC).
- Control room equipment must not use or generate over 250 V.
 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.
- 5. Sealing plugs of the terminal compartment A must not be exchanged with those of the terminal compartment B.

 6. In Division 1: Seal not required.

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	
or Detector out of op		Detector with Nal crystal scintillator: -40°C+60°C	Т6	
	Detector with water cooling out of operation	Detector with plastic scintillator: -40°C+60°C		
	Detector with water cooling in operation	At the pipe housing (inside the water cooling):		
		Detector with Nal crystal scintillator: -40°C+60°C	Т6	
		Detector with plastic scintillator: -40°C+60°C		
		At the compartment housing: -40°C+75°C		

ZD192F-D/00/en/05.09 CCS/FM6.0



CSA Control Drawing 960007132 D





People for Process Automation