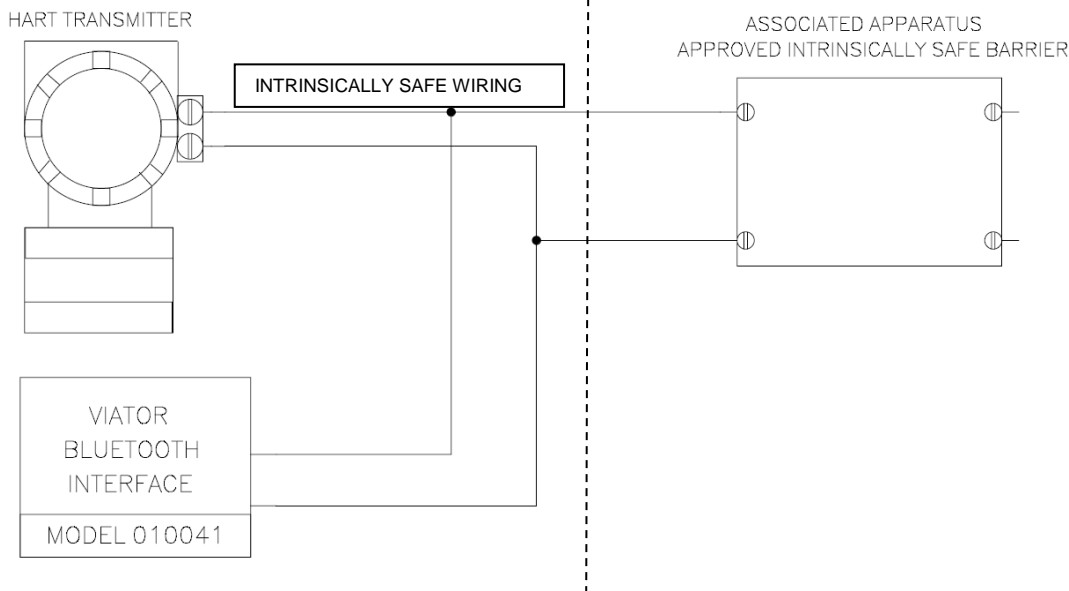


Connections

HAZARDOUS LOCATION
 CI I, Div. 1 or Div. 2 Grps. A, B, C, D; T4
 CI I, Zone 0, AEx ia IIC T4 Ga; Ex ia IIC T4 Ga

HAZARDOUS OR NON-HAZARDOUS AREA



Notes

1. The Viator has input and output entity parameters that must be confirmed as suitable when connected into a fixed intrinsically safe circuit.
2. All associated apparatus and intrinsically safe devices (HART device) in the system must be third party listed as intrinsically safe for the application, and have U_o not exceeding U_i (or V_{oc} or V_t not exceeding V_{max}), I_o not exceeding I_i (or I_{sc} or I_t not exceeding I_{max}), and the P_o of the associated apparatus must be less than or equal to the P_i (or P_{max}) of the intrinsically safe equipment, as shown below.
3. Capacitance and inductance of the system must be less than the marked capacitance, C_o (or C_a), shown on any associated apparatus, including the Viator device, used. The same applies for inductance (L_{cable} , L_i and L_o or L_a , respectively). Where the cable capacitance and inductance per foot are not known, the following values shall be used: $C_{cable} = 60 \text{ pF/ft.}$, $L_{cable} = 0.2 \text{ µH/ft.}$

I.S. Equipment		Associated Apparatus	
U_i (or V_{max})	\geq	U_o (or V_{oc} or V_t)	
I_i (or I_{max})	\geq	I_o (or I_{sc} or I_t)	
P_i (or P_{max})	\geq	P_o	
$C_i + C_{cable}$	\leq	C_o (or C_a)	
$L_i + L_{cable}$	\leq	L_o (or L_a)	

4. Warning: Substitution of components may impair intrinsic safety and suitability for hazardous (classified) locations.

ADVERTISEMENT: le remplacement des composants peut altérer la sécurité intrinsèque et l'adéquation à une utilisation dans des zones dangereuses (classées).

Entity Parameters

The Viator has the following input and output entity parameters. The Viator adds no capacitance and inductance to the fixed system. Other values must be confirmed as not affecting the safety of the overall system per the notes above.

U_i (V_{max}) =	30 V	I_i (I_{max}) =	130 mA	P_i (P_{max}) =	1 W	C_i =	0 µF	L_i =	0 mH
U_o (V_{oc}) =	1.8 V	I_o (I_{sc}) =	2.5 mA	P_o =	1.1 mW	C_o (C_a) =	100 µF	L_o (L_a) =	1 mH

This document contains safety-relevant information. It must not be altered without the authorization of a NE EX

Only valid as long as released in EDM

date: 25-MAY-2017

PEPPERL+FUCHS

Control Drawing for Bluetooth Interface Viator Model 010041

116-B033A

Global

sheet 1 of 1