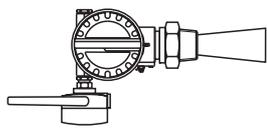


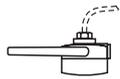
Hazardous location

Class I, Div. 1, Groups A, B, C, D
 Class II, Div. 1, Groups E, F, G, Class III
 Class I, Zone 1, Group IIC

Compact version



Remote version



Adapter active (4...20 mA + HART communication):
 Loop-powered field device (compact or remote version)

Entity parameter:
 $U_0 / V_{oc} = 26 \text{ V DC}$
 $I_0 / I_{sc} = 98 \text{ mA}$
 $P_0 / P_o = 631 \text{ mW}$
 $C_o = 89.8 \text{ nF}$
 $L_o = 3.58 \text{ mH}$

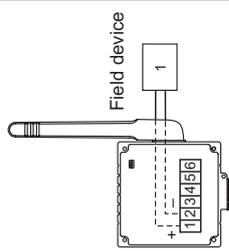


Table:
 Permissible ambient temperature and temperature code:

Temperature code	Permissible ambient temperature electronic compartment
T4	-40...60 °C

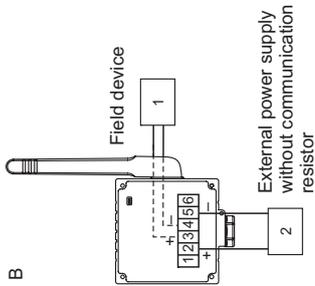
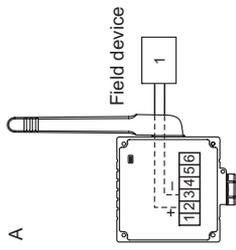
Adapter passive (4...20 mA + HART communication):

- A 4-wire field device (compact or remote version)
- B 2-wire field device with ext. power supply (compact or remote version)

Entity parameter for terminals 1-6:

$U_0 / V_{oc} = 30 \text{ V DC}$
 $I_0 / I_{sc} = 100 \text{ mA}$
 $P_0 / P_o = 3 \text{ W}$
 $C_o = 20.4 \text{ nF}$
 $L_o = 120 \mu\text{H}$

$U_0 / V_{oc} = 26 \text{ V DC}$
 $I_0 / I_{sc} = 98 \text{ mA}$
 $P_0 / P_o = 631 \text{ mW}$
 $C_o = 79.6 \text{ nF}$
 $L_o = 3.46 \text{ mH}$



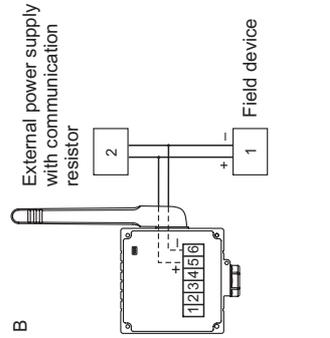
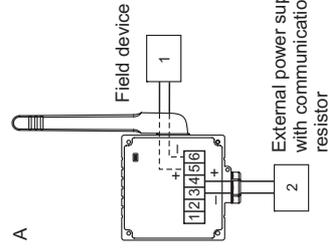
Adapter passive (only HART communication):

- A New installation parallel to HART communication (compact version)
- B Installation parallel to HART communication (remote version)

Entity parameter for terminals 1-6:

$U_0 / V_{oc} = 30 \text{ V DC}$
 $I_0 / I_{sc} = 100 \text{ mA}$
 $P_0 / P_o = 3 \text{ W}$
 $C_o = 20.4 \text{ nF}$
 $L_o = 120 \mu\text{H}$

$U_0 / V_{oc} = 26 \text{ V DC}$
 $I_0 / I_{sc} = 98 \text{ mA}$
 $P_0 / P_o = 631 \text{ mW}$
 $C_o = 79.6 \text{ nF}$
 $L_o = 3.46 \text{ mH}$



Intrinsically safe Ex ia for
 Cl. I, Div. 1, Groups A, B, C, D and Cl. I, Zone 1, Ex ia IIC, T4, AEx ia IIC, T4
 Cl. II, Div. 1, Groups E, F, G, Cl. III

Hazardous Locations Installation

1. Installation must per the Electrical Code of the country in use.
2. Intrinsically safe and associated equipment connected to the SWA70 must be CSA certified for the country in use and must have entity parameters that satisfy the following conditions:
 $V_{oc} (U_0) \leq V_{max} (U_0)$, $I_{sc} (I_0) \leq I_{max} (I_0)$, $P_o \leq P_i$,
 $C_a (C_o) \geq C_i + C_{cable}$, $L_a (L_o) \geq L_i + L_{cable}$.
3. Warning: Substitution of components may impair intrinsic safety.
 Avertissement : La substitution de composants peut compromettre la sécurité intrinsèque.
4. Use supply wires suitable for 5°C above surrounding.
5. Batteries may be changed in an area known to be hazardous. Replace only with Endress+Hauser SWA70 battery pack.
6. Battery unit should not be crushed, punctured or otherwise damaged. Such abuse may impair the electrical safety. Dispose of used battery units in an environmentally compatible manner. Observe national regulations on waste disposal.

Cl. I, Div. 2, Groups A, B, C, D
 Cl. II and III, Div. 1, Groups E, F, G (only for NPT conduit entries - not for plastic enclosure F32)

1. Install per the Canadian Electrical Code using threaded metal conduit.
2. Intrinsic safety barrier not required. Max. ambient temperature: 70°C.
3. Warning: Explosion hazard - Do not disconnect or open equipment when area is known to be hazardous.
 Avertissement : Risque d'explosion - Ne pas déconnecter ni ouvrir l'appareil si la zone est explosive.
4. Warning: Substitution of components may impair suitability for Cl. I, Div. 2.
 Avertissement : La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Cl. I, Div. 2.

