

NON HAZARDOUS LOCATION

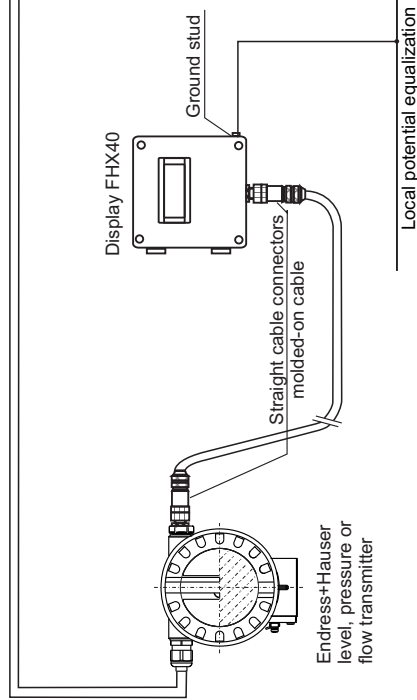
HAZARDOUS LOCATION

Class I, Div. 1, Groups A, B, C, D
 Class I, Zone 0 or Zone 1, IIC
 Class I, Div. 2, Groups A, B, C, D
 Class I, Zone 2, IIC

T* (see table)
 Type 4X, IP66

Display FHX40 connected to Endress+Hauser level, pressure or flow transmitter with an intrinsically safe display output circuit

FM approved associated intrinsically safe apparatus



Area of application:

The Display FHX40 is suitable for areas subject to explosion caused by gases. Permissible ambient temperature: -40 °C to +75 °C.

Temperature class

T _{ambient}	Temperature class for FHX40
+60 °C	T6
+75 °C	T5

Display FHX40 for connection to FM approved Endress+Hauser instruments with an intrinsically safe (IS) display output circuit

Notes: INTRINSICALLY SAFE CLASS I, DIV. 1, GROUPS A, B, C, D or AEx ia IIC HAZARDOUS LOCATION INSTALLATION

- Control room equipment may not use or generate over 250 Vrms.
- Installation should be in accordance with ANSI/ISA 12.06.01 "Installation of intrinsically safe systems for hazardous (classified) locations" and the National Electrical Code (ANSI/NFPA 70).
- Warning: Substitution of components may impair intrinsic safety.
- Display FHX40 entity parameters with 30 m cable are:
 $V_{max} = 5.6 \text{ V}$
 $I_{max} = 47 \text{ mA}$
 $P_I = 66 \text{ mW}$
 $C_i = 11 \text{ }\mu\text{F}$
 $L_i = 30 \text{ }\mu\text{H}$
 Display FHX40 with cable can be connected to FM approved Endress+Hauser apparatus with intrinsically safe display output circuits which meet the following requirements:
 $V_{oc} \text{ or } V_t \text{ or } U_o \leq V_{max}$
 $I_{sc} \text{ or } I_t \text{ or } I_o \leq I_{max}$
 $P_o \leq P_I$
 $C_a \geq C_i$
 $L_a \geq L_i$
- Permissible cable length between transmitter and display FHX40 is 40 m.
- Applicable installation drawings for the FM approved Endress+Hauser transmitter and the associated intrinsically safe apparatus must also be followed when installing this equipment.

NONINCENDIVE; CLASS I, DIV. 2, GROUPS A, B, C, D
 or CLASS I, Zone 2, IIC
 HAZARDOUS LOCATION INSTALLATION

- Display FHX40 and cable are nonincendive when connected to FM approved Endress+Hauser apparatus with intrinsically safe or nonincendive display output circuits with output voltage and current not exceeding the following levels:
 $V_{oc} \text{ or } U_o \leq 5.6 \text{ V}$
 $I_{sc} \text{ or } I_o \leq 1 \text{ A}$
- Applicable installation drawing for Division 2 or Zone 2 installation of the FM approved Endress+Hauser transmitter must also be followed when installing this equipment.

