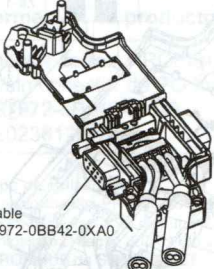


Installation Drawing

PROFIBUS Fast Connector 6ES7972-0Bx42-0XA0



PROFIBUS Fast Connector

IND.CONT.EQ for HAZ. LOC
 CL.I, Div. 2, GP A, B, C, D T6
 LISTED 3981 CL.I Zone 2, GP. IIC T6

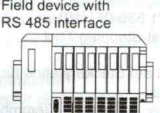
Ambient Temperature
 $-25^{\circ}\text{C} \leq \text{Tamb.} \leq 60^{\circ}\text{C}$

Available
6ES7972-0BB42-0XA0

Connector accessories are intended to be mounted inside a panel with wiring methods in accordance with the NEC

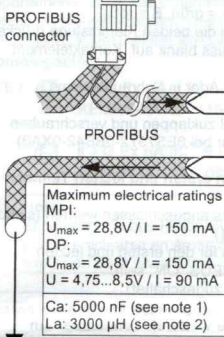
Hazardous (Classified) Location
 CL. I, Div. 2, GP A, B, C, D T6
 CL. I, Zone 2, GP. IIC T6

Field device with RS 485 interface

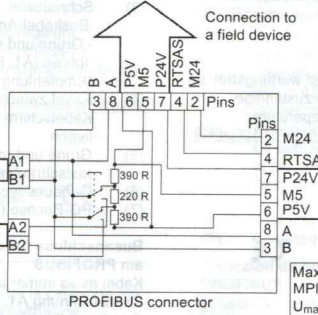


PROFIBUS connector

PROFIBUS



Maximum electrical ratings
 MPI: $U_{\text{max}} = 28.8\text{V} / I = 150\text{mA}$
 DP: $U_{\text{max}} = 28.8\text{V} / I = 150\text{mA}$
 $U = 4.75 \dots 8.5\text{V} / I = 90\text{mA}$
 Ca (Maximum capacitance allowed): 5000 nF (see note 1)
 La (Maximum inductance allowed): 3000 μH (see note 2)



Connection to a field device

Field device with RS 485 interface

Connection to a field device

Maximum electrical ratings
 MPI: $U_{\text{max}} = 28.8\text{V} / I = 150\text{mA}$
 DP: $U_{\text{max}} = 28.8\text{V} / I = 150\text{mA}$
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 $U = 4.75 \dots 8.5\text{V} / I = 90\text{mA}$
 Ca: 5000 nF (see note 1)
 La: 3000 μH (see note 2)

To further Field devices and stations

Note 1: May be calculated using manufacturer's specification, or simplified using 0.200nF/m (per A.9.4 of ANS/ISA-12-12-01-2007)

Note 2: May be calculated using manufacturer's specification, or simplified using 0.66 $\mu\text{H}/\text{m}$ (per A.9.4 of ANS/ISA-12-12-01-2007)



CL.I, DIV. 2, GP. A, B, C, D T6
 CL.I, Zone 2, GP. IIC, T6