DIAGRAM 1

Unclassifed or
HAZARDOUS (Classified) LOCATION
Class I, Zone 2, Group IIC or
Class I, Division 2, Groups A–D

Unclassified or
HAZARDOUS (Classified) LOCATION
Class I, Zone 1, Group IIC or
Class I, Division 1, Groups A–D

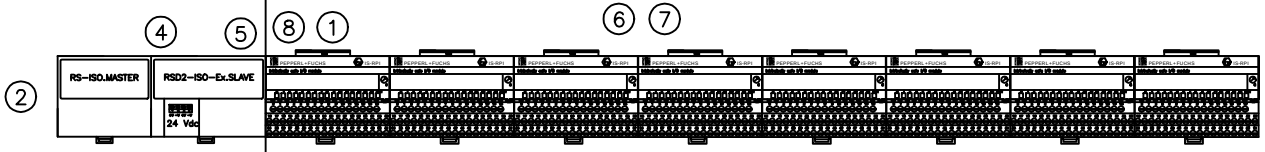
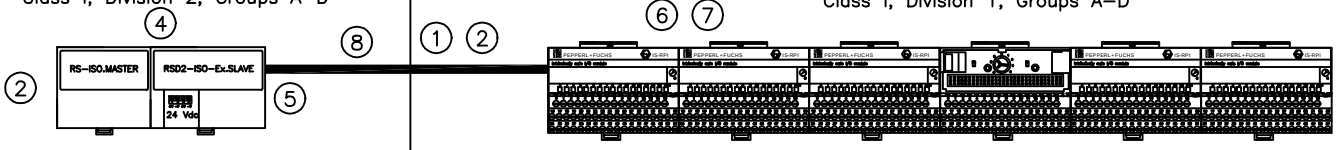


DIAGRAM 2

Unclassified or
HAZARDOUS (Classified) LOCATION
Class I, Zone 2, Group IIC or
Class I, Division 2, Groups A–D

Unclassified or
HAZARDOUS (Classified) LOCATION
Class I, Zone 1, Group IIC or
Class I, Division 1, Groups A–D



ISOLATOR	Terminals	Vt(V)	It(mA)	Groups	Ca(uF)	La(uH)
③ RSD2–ISO–Ex.SLAVE	Male connector on side of housing	5.75	398.25	A–G	39.67	210

① The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus not specifically examined in combination as a system when the approved values of Voc and Isc or Vt and It of the associated apparatus are less than or equal to Vmax and Imax of the intrinsically safe apparatus and the approved values of Ca and La of the associated apparatus are greater than Ci+Ccable and Li+Lcable respectively for the intrinsically safe apparatus.

② Wiring methods must be in accordance with the National Electrical Code, ANSI/NFPA 70. For additional information refer to ANSI/ISA RP12.6.

③ This Control Drawing must be used in conjunction with Control Drawing 116-0171.

④ The RS-ISO.MASTER and RSD2-ISO-Ex.SLAVE makes possible the simultaneous connection of field signals to an IS-RPI system mounted in a Hazardous (Classified) Location to a system mounted in a Unclassifed or to a system approved for mounting in a Class I, Division 2, Groups A,B,C,D Hazardous (Classified) Location.

⑤ The male connector of the RSD2-ISO-Ex.SLAVE may be connected to a maximum of 8 I/O modules. This is a functional limitation.

⑥ The following modules per Control Drawing 116-0171 may be connected: RSD-BI-EX16, RSD-BO-EX4, RSD-CI-EX8, RSD-CI2-EX8, RSD-CO-EX8, RSD-BO-EX8, RSD-UO-EX8, RSD-FI-EX2, RSD-CTI-EX2, RSD-TI-EX8.

⑦ I/O module capacitance value is cumulative. Ci(total) = Ci(I/O module 1) + Ci(I/O module 2) + ... Ci (I/O module 8) + Ccable. Ci(total) must be less than 39.67uF. For Ci value of modules refer to Female Bus Connector entity parameter in Control Drawing 116-0171.

⑧ The RSD2-ISO-EX.SLAVE may be directly connected to an I/O module as in Diagram 1 or connected with a cable as in Diagram 2.

CONFIDENTIAL according ISO 16016	Only valid as long as released in EDM or with a valid production documentation!				scale: 1:1	date: 2002-Oct-22
PEPPERL+FUCHS	Control drawing RS-ISO.MASTER RSD2-ISO-Ex.SLAVE	change notice	respons.	US.AAS	116-0263	
			approved	US.DCH		
Twinsburg			norm	US.WDB	sheet 1 of 1	