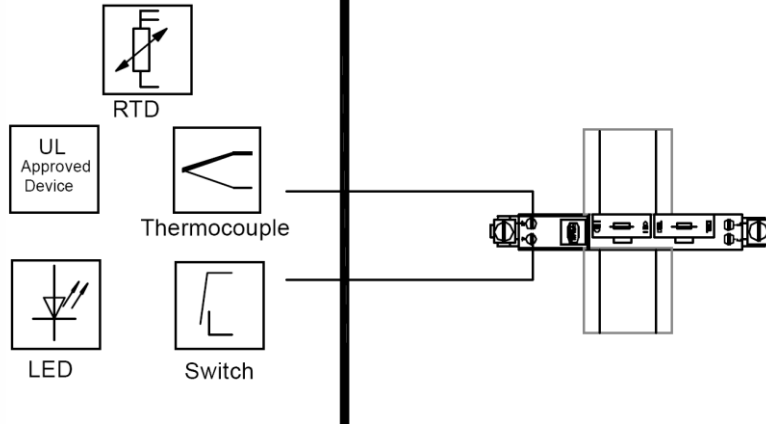


Class I, II, III, Div. 1, Group A - G or
Class I, Zone 0, Group IIC/IIB Hazardous Locations

Nonhazardous or Class I, Div. 2, Group A, B, C, D or
Class I, Zone 2, Group IIC Hazardous Locations

Intrinsically Safe Apparatus
or Simple Apparatus



The Intrinsic Safety Barriers are associated apparatus located in Nonhazardous or Class I, Div. 2, Group A, B, C, D, T4 or Class I, Zone 2, Group IIC, T4 locations and provide intrinsically safe connections for device(s) located in Class I, Div. 1, Group A, B, C, D; Class II, Div. 1, Group E, F, G; Class III, Div. 1; or Class I, Zone 0, Group IIC/IIB Hazardous (Classified) Locations.

Notes:

1. Intrinsically safe apparatus may be switches, thermocouples, LEDs, RTDs, or a UL Approved System or Entity device connected in accordance with the manufacturer's installation instructions as defined in Article 504.2 and installed and temperature classified in accordance with Article 504.10(B) of the National Electrical Code (ANSI/NFPA 70), or other local codes, as applicable.
2. The output current of this associated apparatus is limited by a resistor such that the output voltage-current plot is a straight line drawn between open-circuit voltage and short-circuit current.
3. For Entity concept use the appropriate parameters from above to ensure the following:

$$V_t \text{ or } V_{OC} \leq V_{max} \quad C_a \geq C_i + C_{cable}$$

$$I_t \text{ or } I_{SC} \leq I_{max} \quad L_a \geq L_i + L_{cable} \quad P_o \leq P_{max}, P_i$$

Capacitance C_{cable} and inductance L_{cable} of the field wiring, plus intrinsically safe equipment capacitance, C_i and inductance L_i shall be considered in the calculation above. Where the cable capacitance and inductance per foot are not known, the following values shall be used: $C_{cable} = 60 \text{ pF/ft.}$, $L_{cable} = 0.2 \text{ } \mu\text{H/ft.}$

4. Electrical apparatus connected to non-IS side of barrier should not use or generate voltages $> 250 \text{ V (} U_{max} \text{)}$.
5. This associated apparatus is open-type and must be installed in an enclosure suitable for the application in accordance with the National Electrical Code (ANSI/NFPA 70), or other local codes, as applicable.
6. The associated apparatus must be connected to a suitable ground electrode per the National Electrical Code (ANSI/NFPA 70), or other local installation codes, as applicable. The resistance of the ground path must be less than 1 ohm.
7. Where multiple circuits extend from the same piece of associated apparatus, they must be installed in separate cables or in one cable having suitable insulation. Refer to Article 504.30 (B) of the National Electrical Code (ANSI/NFPA 70) and Instrument Society of America Recommended Practice ISA RP12.6 for installing intrinsically safe equipment.
8. Intrinsically safe circuits must be wired and separated in accordance with Article 504.20 of the National Electrical Code (ANSI/NFPA 70) or other local codes, as applicable.
9. This associated apparatus has not been evaluated for use in combination with another associated apparatus.
10. Maximum barrier operating temperature is 60°C except as follows:
 $T_a = 50^\circ\text{C:}$ 9001/0.-280-165-101 9001/03-280-000-101 9001/04-280-000-101
 9001/0.-280-280-101 9001/51-280-091-141
 $T_a = 40^\circ\text{C:}$ 9001/51-280-110-141

WARNING: - Substitution of components may impair suitability for Division 2.

WARNING: - EXPLOSION HAZARD – Do not remove or replace back-up fuse(s) or disconnect non intrinsically safe wiring unless power has been switched off or the area is known to be non-hazardous.

Back-up fuse may only be replaced with R. STAHL part Art. no. 158964

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			2002	Date	Name	Certification drawing Intrinsic Safety Barrier Type 9001/...-...-...-1 90 016 11 31 3	Scale
			Drawn by	3/2002	Tobey		none
			Checked		Kaiser		Sheet
							1 of 6
03	14.05.14	Bader					Agency
02	12.08.09	Einsiedler					UL
01	11/2004	RVT					
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BARRIER PART NO	V _{OC} (V)	I _{SC} (mA)	P _{max} (mW)	La (Lo)	Grps. A, B, E	Grps. C, D, F, G
	U _O (V)	I _O (mA)	P _O (mW)	Ca (Co)	Grp. IIC	Grp. IIB/IIA
9001/0.-050-050-101	5	50	62.5	Lo / mH	15	56
				Co / μF	100	1000
9001/0.-050-100-101	5	100	125	Lo / mH	4	15
				Co / μF	100	1000
9001/0.-050-150-101	5	150	187.5	Lo / mH	1.3	7
				Co / μF	100	1000
9001/0.-083-442-101	8.3	442	917.2	Lo / mH	0.12	0.5
				Co / μF	7.2	73
9001/0.-086-010-101	8.6	10	21.5	Lo / mH	300	1000
				Co / μF	6.2	55
9001/0.-086-020-101	8.6	20	43	Lo / mH	90	330
				Co / μF	6.2	55
9001/0.-086-050-101	8.6	50	107.5	Lo / mH	15	56
				Co / μF	6.2	55
9001/0.-086-075-101	8.6	75	161.3	Lo / mH	6.7	25
				Co / μF	6.2	55
9001/0.-086-100-101	8.6	100	215	Lo / mH	4	15
				Co / μF	6.2	55
9001/0.-086-150-101	8.6	150	322.5	Lo / mH	1.3	7
				Co / μF	6.2	55
9001/0.-086-270-101	8.6	270	580.5	Lo / mH	0.23	2.2
				Co / μF	6.2	55
9001/0.-086-390-101	8.6	390	838.5	Lo / mH	0.16	0.89
				Co / μF	6.2	55
9001/0.-126-020-101	12.6	20	63	Lo / mH	90	330
				Co / μF	1.15	7.4
9001/0.-126-050-101	12.6	50	157.5	Lo / mH	15	56
				Co / μF	1.15	7.4
9001/0.-126-075-101	12.6	75	236.3	Lo / mH	6.7	25
				Co / μF	1.15	7.4
9001/0.-126-100-101	12.6	100	315	Lo / mH	4	15
				Co / μF	1.15	7.4
9001/0.-126-140-101	12.6	140	441	Lo / mH	1.6	8
				Co / μF	1.15	7.4
9001/0.-126-150-101	12.6	150	472.5	Lo / mH	1.3	7
				Co / μF	1.15	7.4
9001/0.-137-065-101	13.7	65	222.6	Lo / mH	8.8	34
				Co / μF	0.79	5
9001/0.-158-005-101	15.8	5	19.75	Lo / mH	1000	1000
				Co / μF	0.478	2.88
9001/0.-158-150-101	15.8	150	592.5	Lo / mH	1.3	7
				Co / μF	0.478	2.88
9001/0.-168-007-101	16.8	7	29.4	Lo / mH	1000	720
				Co / μF	0.39	2.29
9001/0.-168-020-101	16.8	20	84	Lo / mH	90	330
				Co / μF	0.39	2.29
9001/0.-168-050-101	16.8	50	210	Lo / mH	15	56
				Co / μF	0.39	2.29
9001/0.-168-075-101	16.8	75	315	Lo / mH	6.7	25
				Co / μF	0.39	2.29
9001/0.-168-100-101	16.8	100	420	Lo / mH	4	15
				Co / μF	0.39	2.29


			2002	Date	Name	Certification drawing	Scale	
			Drawn by	3/2002	Tobey		none	
			Checked		Kaiser		Sheet	
						Intrinsic Safety Barrier Type 9001/...-...-...-...1	90 016 11 31 3	2 of 6
03	14.05.14	Bader						Agency
02	12.08.09	Einsiedler						UL
01	11/2004	RVT						
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BARRIER PART NO	V _{OC} (V)	I _{SC} (mA)	P _{max} (mW)	La (Lo)	Grps. A, B, E	Grps. C, D, F, G
	U _O (V)	I _O (mA)	P _O (mW)	Ca (Co)	Grp. IIC	Grp. IIB/IIA
9001/0.-199-010-101	19.9	10	49.75	Lo / mH	330	1000
				Co / μF	0.223	1.42
9001/0.-199-020-101	19.9	20	99.5	Lo / mH	90	330
				Co / μF	0.223	1.42
9001/0.-199-038-101	19.9	38	189.1	Lo / mH	26	95
				Co / μF	0.223	1.42
9001/0.-199-050-101	19.9	50	248.8	Lo / mH	15	56
				Co / μF	0.223	1.42
9001/0.-199-070-101	19.9	70	348.3	Lo / mH	7.5	28
				Co / μF	0.223	1.42
9001/0.-199-100-101	19.9	100	497.5	Lo / mH	4	15
				Co / μF	0.223	1.42
9001/0.-199-150-101	19.9	150	746.3	Lo / mH	1.3	7
				Co / μF	0.223	1.42
9001/0.-252-070-101	25.2	70	441	Lo / mH	4.5	25
				Co / μF	0.107	0.82
9001/0.-280-020-101	28	20	140	Lo / mH	50	50
				Co / μF	0.083	0.65
9001/0.-280-050-101	28	50	350	Lo / mH	8.5	25
				Co / μF	0.083	0.65
9001/0.-280-075-101	28	75	525	Lo / mH	3.3	21
				Co / μF	0.083	0.65
9001/0.-280-085-101	28	85	595	Lo / mH	2.4	16
				Co / μF	0.083	0.65
9001/0.-280-100-101	28	100	700	Lo / mH	1.6	11
				Co / μF	0.083	0.65
9001/0.-280-110-101	28	110	770	Lo / mH	1.2	9
				Co / μF	0.083	0.65
9001/0.-280-165-101	28	165	1155	Lo / mH	-	3.5
				Co / μF	-	0.65
9001/0.-315-020-101	31.5	20	157.5	Lo / mH	50	50
				Co / μF	0.056	0.41
9001/0.-315-050-101	31.5	50	393.8	Lo / mH	7.5	25
				Co / μF	0.056	0.41
9001/0.-315-070-101	31.5	70	551.3	Lo / mH	3.2	24
				Co / μF	0.056	0.41
9001/0.-398-020-101	39.8	20	199	Lo / mH	50	50
				Co / μF	0.03	0.26
9001/0.-398-050-101	39.8	50	497.5	Lo / mH	5.2	25
				Co / μF	0.03	0.26
9001/01-252-057-141	25.2	57	359.1	Lo / mH	6.3	25
				Co / μF	0.107	0.82
9001/01-252-060-141	25.2	60	378	Lo / mH	6.2	25
				Co / μF	0.107	0.82
9001/01-252-100-141	25.2	100	630	Lo / mH	2	11
				Co / μF	0.107	0.82
9001/02-016-015-101	1.6	15	6	Lo / mH	160	560
				Co / μF	100	1000
9001/02-016-050-101	1.6	50	20	Lo / mH	15	56
				Co / μF	100	1000
9001/02-016-050-111	1.6	50	20	Lo / mH	15	56
				Co / μF	100	1000


			2002	Date	Name	Certification drawing Intrinsic Safety Barrier Type 9001/...-...-...-1	Scale
			Drawn by	3/2002	Tobey		none
			Checked		Kaiser		Sheet 3 of 6
03	14.05.14	Bader			90 016 11 31 3	Agency	
02	12.08.09	Einsiedler				UL	
01	11/2004	RVT					
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BARRIER PART NO	V _{oc} (V)	I _{sc} (mA)	P _{max} (mW)	La (Lo)	Grps. A, B, E	Grps. C, D, F, G
	U _o (V)	I _o (mA)	P _o (mW)	Ca (Co)	Grp. IIC	Grp. IIB/IIA
9001/02-016-150-101	1.6	150	60	Lo / mH	1.3	7
				Co / μF	100	1000
9001/02-016-150-111	1.6	150	60	Lo / mH	1.3	7
				Co / μF	100	1000
9001/02-016-320-101	1.6	320	128	Lo / mH	0.19	1.6
				Co / μF	100	1000
9001/02-061-020-101	6.1	20	30.5	Lo / mH	90	330
				Co / μF	37	880
9001/02-061-050-101	6.1	50	76.25	Lo / mH	15	56
				Co / μF	37	880
9001/02-061-150-101	6.1	150	228.8	Lo / mH	1.3	7
				Co / μF	37	880
9001/02-093-003-101	9.3	3	6.975	Lo / mH	1000	1000
				Co / μF	4.1	31
9001/02-093-020-101	9.3	20	46.5	Lo / mH	90	330
				Co / μF	4.1	31
9001/02-093-030-101	9.3	30	69.75	Lo / mH	40	150
				Co / μF	4.1	31
9001/02-093-050-101	9.3	50	116.3	Lo / mH	15	56
				Co / μF	4.1	31
9001/02-093-075-101	9.3	75	174.4	Lo / mH	6.7	25
				Co / μF	4.1	31
9001/02-093-100-101	9.3	100	232.5	Lo / mH	4	15
				Co / μF	4.1	31
9001/02-093-120-101	9.3	120	279	Lo / mH	2.5	10
				Co / μF	4.1	31
9001/02-093-150-101	9.3	150	348.8	Lo / mH	1.3	7
				Co / μF	4.1	31
9001/02-093-250-101	9.3	250	581.3	Lo / mH	0.27	2.7
				Co / μF	4.1	31
9001/02-093-270-101	9.3	270	627.8	Lo / mH	0.23	2.2
				Co / μF	4.1	31
9001/02-093-390-101	9.3	390	906.8	Lo / mH	0.16	0.89
				Co / μF	4.1	31
9001/02-133-003-101	13.3	3	9.975	Lo / mH	1000	1000
				Co / μF	0.91	5.6
9001/02-133-020-101	13.3	20	66.5	Lo / mH	90	330
				Co / μF	0.91	5.6
9001/02-133-050-101	13.3	50	166.3	Lo / mH	15	56
				Co / μF	0.91	5.6
9001/02-133-075-101	13.3	75	249.4	Lo / mH	6.7	25
				Co / μF	0.91	5.6
9001/02-133-100-101	13.3	100	332.5	Lo / mH	4	15
				Co / μF	0.91	5.6
9001/02-133-120-101	13.3	120	399	Lo / mH	2.5	10
				Co / μF	0.91	5.6
9001/02-133-150-101	13.3	150	498.8	Lo / mH	1.3	7
				Co / μF	0.91	5.6
9001/02-175-020-101	17.5	20	87.5	Lo / mH	90	330
				Co / μF	0.339	1.97
9001/02-175-050-101	17.5	50	218.8	Lo / mH	15	56
				Co / μF	0.339	1.97
9001/02-175-075-101	17.5	75	328.1	Lo / mH	6.7	25
				Co / μF	0.339	1.97


2002			Date	Name			Certification drawing		Scale		
Drawn by			3/2002	Tobey			Intrinsic Safety Barrier		none		
Checked				Kaiser			Type 9001/.....1		Sheet		
							90 016 11 31 3		4 of 6		
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BARRIER PART NO	V _{OC} (V)	I _{SC} (mA)	P _{max} (mW)	La (Lo)	Grps. A, B, E	Grps. C, D, F, G
	U _O (V)	I _O (mA)	P _O (mW)	Ca (Co)	Grp. IIC	Grp. IIB/IIA
9001/02-175-100-101	17.5	100	437.5	Lo / mH	4	15
				Co / μF	0.339	1.97
9001/02-175-120-101	17.5	120	525	Lo / mH	2.5	10
				Co / μF	0.339	1.97
9001/02-175-150-101	17.5	150	656.3	Lo / mH	1.3	7
				Co / μF	0.339	1.97
9001/02-175-200-101	17.5	200	875	Lo / mH	0.5	4
				Co / μF	0.339	1.97
9001/02-196-010-101	19.6	10	49	Lo / mH	330	1000
				Co / μF	0.235	1.47
9001/02-196-020-101	19.6	20	98	Lo / mH	90	330
				Co / μF	0.235	1.47
9001/02-196-030-101	19.6	30	147	Lo / mH	40	150
				Co / μF	0.235	1.47
9001/02-196-050-101	19.6	50	245	Lo / mH	15	56
				Co / μF	0.235	1.47
9001/02-196-075-101	19.6	75	367.5	Lo / mH	6.7	25
				Co / μF	0.235	1.47
9001/02-196-100-101	19.6	100	490	Lo / mH	4	15
				Co / μF	0.235	1.47
9001/02-196-120-101	19.6	120	588	Lo / mH	2.5	10
				Co / μF	0.235	1.47
9001/02-196-125-101	19.6	125	612.5	Lo / mH	2.2	9
				Co / μF	0.235	1.47
9001/02-196-150-101	19.6	150	735	Lo / mH	1.3	7
				Co / μF	0.235	1.47
9001/02-224-020-101	22.4	20	112	Lo / mH	90	330
				Co / μF	0.156	1.09
9001/02-224-050-101	22.4	50	280	Lo / mH	15	56
				Co / μF	0.156	1.09
9001/02-224-075-101	22.4	75	420	Lo / mH	6.7	25
				Co / μF	0.156	1.09
9001/02-224-100-101	22.4	100	560	Lo / mH	4	15
				Co / μF	0.156	1.09
9001/02-224-120-101	22.4	120	672	Lo / mH	2.5	10
				Co / μF	0.156	1.09
9001/02-224-150-101	22.4	150	840	Lo / mH	1.3	7
				Co / μF	0.156	1.09
9001/02-280-015-101	28	15	105	Lo / mH	50	50
				Co / μF	0.083	0.65
9001/02-280-020-101	28	20	140	Lo / mH	50	50
				Co / μF	0.083	0.65
9001/02-280-050-101	28	50	350	Lo / mH	8.5	25
				Co / μF	0.083	0.65
9001/02-280-075-101	28	75	525	Lo / mH	3.4	21
				Co / μF	0.083	0.65
9001/02-280-090-101	28	90	630	Lo / mH	2.2	14
				Co / μF	0.083	0.65
9001/02-280-120-101	28	120	840	Lo / mH	-	7
				Co / μF	-	0.65
9001/02-307-075-101	30.7	75	575.6	Lo / mH	2.9	20
				Co / μF	0.062	0.53
9001/02-307-130-101	30.7	130	997.8	Lo / mH	-	5.4
				Co / μF	-	0.53

			2002	Date	Name	Certification drawing		Scale
			Drawn by	3/2002	Tobey	Intrinsic Safety Barrier		none
			Checked		Kaiser	Type 9001/...-...-...-...1		Sheet
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F 4830 503

BARRIER PART NO	V _{OC} (V)	I _{SC} (mA)	P _{max} (mW)	La (Lo)	Grps. A, B, E	Grps. C, D, F, G
	U _o (V)	I _o (mA)	P _o (mW)	Ca (Co)	Grp. IIC	Grp. IIB/IIA
9001/02-412-040-101	41.2	40	412	Lo / mH Co / μF	8 0.03	25 0.287
9001/02-412-065-101	41.2	65	669.5	Lo / mH Co / μF	- -	23 0.287
9001/02-412-095-101	41.2	95	978.5	Lo / mH Co / μF	- -	9 0.287
9001/03-086-000-101	8.6	0	0	Lo / mH Co / μF	1000 6.2	1000 55
9001/03-168-000-101	16.8	0	0	Lo / mH Co / μF	1000 0.39	1000 2.29
9001/03-199-000-101	19.9	0	0	Lo / mH Co / μF	1000 0.223	1000 1.42
9001/03-280-000-101	28	0	0	Lo / mH Co / μF	50 0.083	50 0.65
9001/04-086-000-101	8.6	0	0	Lo / mH Co / μF	1000 6.2	1000 55
9001/04-168-000-101	16.8	0	0	Lo / mH Co / μF	1000 0.39	1000 2.29
9001/04-199-000-101	19.9	0	0	Lo / mH Co / μF	1000 0.223	1000 1.42
9001/04-280-000-101	28	0	0	Lo / mH Co / μF	50 0.083	50 0.65
9001/0.-158-270-101	15.8	270	1067	Lo / mH Co / μF	0.23 0.478	2.2 2.88
9001/0.-158-390-101	15.8	390	1541	Lo / mH Co / μF	0.16 0.478	0.89 2.88
9001/0.-199-270-101	19.9	270	1343	Lo / mH Co / μF	0.23 0.223	2.2 1.42
9001/0.-199-390-101	19.9	390	1940	Lo / mH Co / μF	- -	0.89 1.42
9001/0.-280-280-101	28	280	1960	Lo / mH Co / μF	- -	0.6 0.65
9001/02-172-270-101	17.2	270	1161	Lo / mH Co / μF	0.23 0.36	2.2 2.11
9001/02-172-390-101	17.2	390	1677	Lo / mH Co / μF	0.16 0.36	0.89 2.11
9001/02-217-270-101	21.7	270	1465	Lo / mH Co / μF	- -	2.2 1.17
9001/02-217-390-101	21.7	390	2116	Lo / mH Co / μF	- -	0.89 1.17
9001/02-308-230-101	30.8	230	1771	Lo / mH Co / μF	- -	0.7 0.524
9001/51-280-091-141	28	91	637	Lo / mH Co / μF	2.2 0.083	14 0.65
9001/51-280-110-141	28	110	770	Lo / mH Co / μF	1.2 0.083	9 0.65

			2002	Date	Name	Certification drawing		Scale		
			Drawn by	3/2002	Tobey	Intrinsic Safety Barrier		none		
			Checked		Kaiser	Type 9001/...-...-...-1		Sheet		
						90 016 11 31 3		6 of 6		
						Rep. f.		Rep. t.		Agency
										UL
Index	Date	Name						A4		