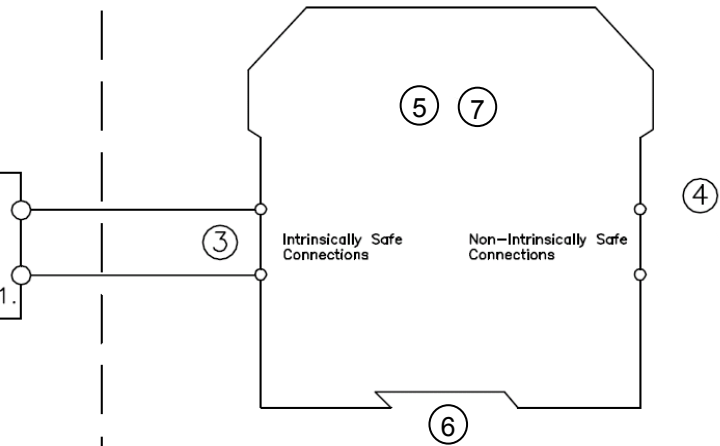


NONHAZARDOUS LOCATION
or
HAZARDOUS (CLASSIFIED) LOCATION
CLASS I, DIVISION 1, GROUPS A,B,C,D
CLASS II, DIVISION 1, GROUPS E,F,G
CLASS III, DIVISION 1
or
CLASS I, ZONE 0 and 1, IIC

NONHAZARDOUS LOCATION
or
CLASS I, DIVISION 2, GROUPS A,B,C,D
or
CLASS I, ZONE 2, GROUP IIC

Any Simple Apparatus (2) or approved device with Entity Concept (1) parameters (V_{max} , I_{max} , C_i , L_i) appropriate for connection to Associated Apparatus with Entity Concept parameters listed in Table 1.



NOTES:


- 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 V_{oc} (or U_o), I_{sc} (or I_o) and P_o for the associated apparatus are less than or equal to $V_{max}(U_i)$, $I_{max}(I_i)$ and P_i for the intrinsically safe apparatus and the approved values of $C_a(C_o)$ and $L_a(L_o)$ for the associated apparatus are greater than $C_i + C_{cable}$ and $L_i + L_{cable}$, respectively, for the intrinsically safe apparatus.
- ② Simple Apparatus: An electrical component or combination of components of simple construction with well defined electrical parameters that does not generate more than 1.5 volts, 100 milliamps, and 25 milliwatts, or a passive component that does not dissipate more than 1.3 watts and is compatible with the intrinsic safety of the circuit in which it is used.
- ③ Wiring methods must be in accordance with the electrical code of the country in use. In case of one module consists of 2 intrinsically safe channels, each channel must be installed as a separate intrinsically safe circuit.
- ④ Barriers shall not be connected to any device which uses or generates internally any voltage in excess of 250V r.m.s. or DC unless the device has been determined to adequately isolate the voltage from the barrier.
- ⑤ These barriers are rated for Class I, Division 2 and Class I, Zone 2. If the barriers are intended to be mounted in a Division 2 or Zone 2 location, they must be installed within an enclosure which is capable of accepting one or more Division 2/ Zone 2 wiring methods as specified in the NEC (ANSI/NFPA 70) resp. in the CEC (C22.1). Where installed in outdoor or potentially wet locations, the enclosure shall, at a minimum, meet the requirements of IP54. Where installed in dry, clean, indoor locations, the enclosure shall, at a minimum, meet the requirements of IP4X. A temperature rating of T4 applies.
- ⑥ Power feed modules KFD2-EB2* maybe used in conjunction with power rail to energize P+F isolated barriers (KFD2 Series) when installed in accordance with Control Drawing 116-0160.
- ⑦ WARNING: Substitution of components may impair intrinsic safety and suitability for Division 2 hazardous (classified) Locations.
ADVERTISEMENT: La substitution de composants peut compromettre la sécurité intrinsèque.

Dieses Dokument enthält sicherheitsrelevante Angaben. Es darf nicht ohne Absprache mit dem Normenfachmann geändert werden!			
This document contains safety-relevant information. It must not be altered without the authorization of the norm expert!			
CONFIDENTIAL acc. to ISO 16016			date: 2010-July-28
	Control Drawing	respons.	16-562FM-12
	KFD2-SL2-Ex1.LK****	approved	
	Worldwide		norm

Table 1 – ENTITY PARAMETERS								
MODEL NUMBER	TERMINALS	V _{oc} (U ₀) [V]	I _{sc} (I ₀) [mA]	P ₀ [mW]	GROUPS	C _a (C ₀) [nF]	L _a (L ₀) [mH]	L ₀ /R ₀ [uH / Ω]
KFD2-SL2-Ex1.LK	1, 2 or 3	28	110	770	A, B IIC	83	3	46.25
					C, E, F, G IIB	650	12	185
					D IIA	2150	23	370
KFD2-SL2-Ex1.LK.1045	1, 2 or 3	26	93	607	A, B IIC	99	4.11	58.9
					C, E, F, G IIB	770	16.4	235.6
					D IIA	2600	32.8	471.2
KFD2-SL2-Ex1.LK.1270	1, 2 or 3	22.1	248	1380	A, B IIC	--	--	--
					C, E, F, G IIB	1120	2.3	103.65
					D IIA	4140	4.6	207.3

Note:

No revision to drawing without prior FM Approval.

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CONFIDENTIAL acc. to ISO 16016			date: 2010-July-28	
 PEPPERL+FUCHS Worldwide	Control Drawing	respons.	16-562FM-12	
	KFD2-SL2-Ex1.LK****	approved		
				norm

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