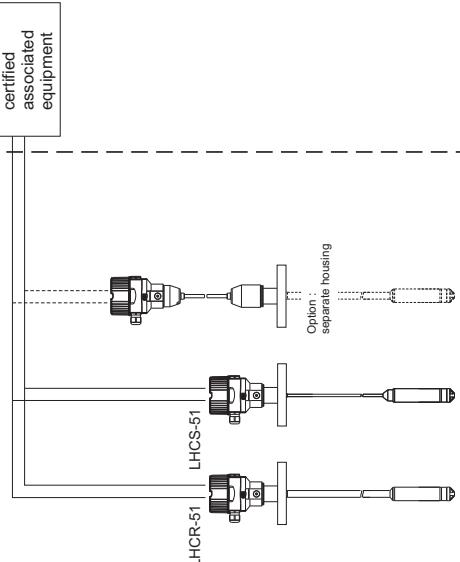


<p>Hazardous location</p> <p>Non hazardous location</p> <p>Class I, Div. 1, 2, Groups A, B, C, D Class I, Zone 0, IIC AEx ia IIC T6</p> <p>Class II, Div. 1, 2, Groups E, F, G Class III</p> <p>Any FM approved barrier / associated equipment</p> <p>certified associated equipment</p>  <p>Entity parameter: $V_{max} = 30 \text{ VDC}$ $I_{max} = 300 \text{ mA}$ $P_{max} = 1 \text{ W}$ $C_i \leq 10 \text{ nF}$ $L_i = 0$</p> <p>For T-code see table (ANSI/NFPA 70).</p> <p>Warning: Substitution of Components may impair intrinsic safety.</p> <p>Intrinsic safety barrier manufacturer's installation drawing must be followed when installing this equipment. The configuration of the intrinsic safety barrier(s) must be FMRC approved.</p> <p>Division 2 and Zone 2 installation</p> <p>Nonincendive Class I, Div. 2, Groups A, B, C, D Hazardous Location Installation (not for LHCS-51) and separate housing</p> <p>Installation should be in accordance with NEC using threaded conduits or other wiring methods in accordance with articles 500 to 510.</p> <p>Intrinsic safety barrier not required</p> <p>max. supply voltage 45 VDC</p> <p>Max. ambient temperature: 70°C</p> <p>Warning: Explosion Hazard - Do not disconnect equipment unless power has been switched off or the area is known to be non hazardous.</p> <p>Nonincendive field wiring installation:</p> <p>The Nonincendive Field Wiring Circuit Concept allows interconnection of nonincendive field wiring apparatus with associated nonincendive field wiring apparatus or associated apparatus not specifically examined in combination as a system using any the wiring methods permitted for unclassified locations. when $V_{max} \geq V_o \text{ or } V_t$, $C_i \geq C_{cable}$, $L_i \geq L_{cable}$.</p> <p>Transmitter parameters are as follows: $V_{max} = 45 \text{ VDC}$; $C_i \leq 10 \text{ nF}$; $L_i = 0$; $I_{max} = \text{see note 10}$</p> <p>Max. ambient temperature: 70°C</p> <p>For these current controlled circuit, the parameter I_{max} is not required and need not to be aligned with parameter I_{sc} and it of the associated nonincendive field wiring apparatus or associated apparatus.</p> <p>Warning: Substitution of Components may impair suitability for Cl. I, Div. 2.</p> <p>Class II, III installation</p> <p>DIP for Class II, III, Div. 1, Groups E, F, G Hazardous Location Installation (not for LHCS-51) and separate housing</p> <p>Installation of transmitter wiring according to NEC using threaded conduits or other wiring methods in accordance with articles 500 to 510.</p> <p>Use a dust tight seal at the conduit entry.</p> <p>Functional ratings:</p> <p>These ratings do not supersede Hazardous Location values.</p> <p>U_{nom} ≤ 45 VDC I_{nom} = 4...20 mA (max. 25 mA)</p> <p>Table: Permissible ambient temperature and temperature code:</p> <table border="1"> <thead> <tr> <th>Temperature code</th> <th>Permissible ambient temperature, electronic compartment</th> </tr> </thead> <tbody> <tr> <td>T6</td> <td>-40...+40 °C</td> </tr> <tr> <td>T4</td> <td>-40...+70 °C</td> </tr> </tbody> </table> <p>option for T_a min. -50 °C</p>	Temperature code	Permissible ambient temperature, electronic compartment	T6	-40...+40 °C	T4	-40...+70 °C	<p>116-0390</p> <p>LHCR-51, LHCS-51 4 ... 20 mA HART FM control drawing</p> <p>71265355</p> <p>FM Control Drawing no. 116-0390</p> <p>Dieses Dokument enthält sicherheitsrelevante Angaben. Es darf nicht ohne Absprache mit dem Normentzweckmann [NE Ex] geändert werden! This document contains safety-relevant information. It must not be altered without the authorization of the norm expert [NE Ex].</p> <p>CONFIDENTIAL acc. to ISO 60066 Only valid as long as released in EDN or with a valid production documentation!</p> <p>date: 2014 March 04</p> <p>PEPPERL+FUCHS P+F Global</p> <p>16-990FM-12A</p> <p>sheet 2 of 4</p>
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