

## **ELECTRICAL SPECIFICATIONS 9-wire cable:**

To enable to conduct an I.S. safety loop calculation for the sensor with J-box, cable and transmitter combination, herewith the maximum I.S. electrical parameters:

Values are based on the Engineering Specifications #1004277, #1004278, #1004280 and #1004281.

<b>Model Code</b>		<b>CPLT</b>	<b>CFEP</b>
DC resistance	22AWG	56 ohm/km	56 ohm/km
	18AWG	24 ohm/km	24 ohm/km
Capacitance	22AWG	177 nF/km	75 nF/km
	18AWG	223 nF/km	131 nF/km
Inductance	22AWG	0,40 mH/km	0,40 mH/km
	18AWG	0,30 mH/km	0,25 mH/km
Maximum L/R ratio		10,9 $\mu$ H/ohm	10,9 $\mu$ H/ohm

*Note: 22 AWG is used for pick-off and RTD circuitry, 18 AWG for drive circuitry*

## **ELECTRICAL SPECIFICATIONS 4-wire cable:**

To enable to conduct an I.S. safety loop calculation for the sensor with Core Processor, cable and transmitter combination, herewith the maximum I.S. electrical parameters.

Values are based on the Engineering Specifications #3600493 and #3101917.

<b>Model Code</b>		<b>CMVD</b>
DC resistance	22AWG	56 ohm/km
	18AWG	24 ohm/km
Capacitance	mutual	196 nF/km
Inductance	mutual	0,78 mH/km
Maximum L/R ratio		17,0 $\mu$ H/ohm

*Note: 22 AWG is used for RS485 circuitry, 18 AWG for supply voltage.*

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