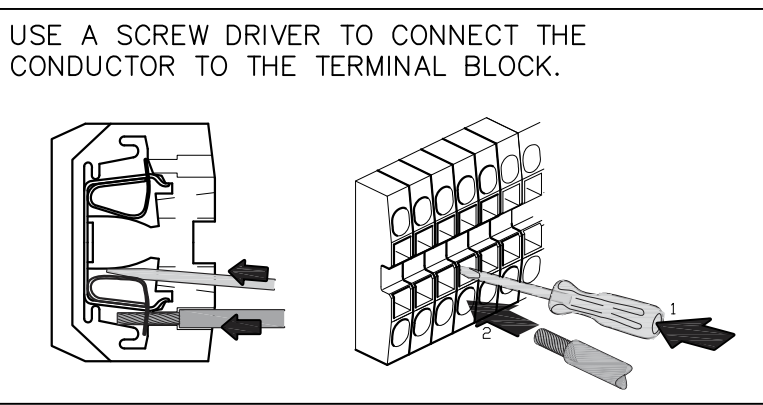


IS I/O HART/4-20mA ENTITY PARAMETERS		
GAS GROUP	ALT. 1 PASSIVE CURRENT LOOP	ALT. 2 ACTIVE CURRENT LOOP
A,B,IIC	U <sub>i</sub> =30V; I <sub>i</sub> =300mA; C <sub>i</sub> =0uF; L <sub>i</sub> =0mH	U <sub>o</sub> =23.1V; I <sub>o</sub> =95.3mA; P <sub>o</sub> =550mW C <sub>o</sub> <=0.14uF; L <sub>o</sub> <=3.9mH
C,IIB	U <sub>i</sub> =30V; I <sub>i</sub> =300mA; C <sub>i</sub> =0uF; L <sub>i</sub> =0mH	U <sub>o</sub> =23.1V; I <sub>o</sub> =95.3mA; P <sub>o</sub> =550mW C <sub>o</sub> <=1.0uF; L <sub>o</sub> <=15mH
D,IIA	U <sub>i</sub> =30V; I <sub>i</sub> =300mA; C <sub>i</sub> =0uF; L <sub>i</sub> =0mH	U <sub>o</sub> =23.1V; I <sub>o</sub> =95.3mA; P <sub>o</sub> =550mW C <sub>o</sub> <=3.67uF; L <sub>o</sub> <=33mH

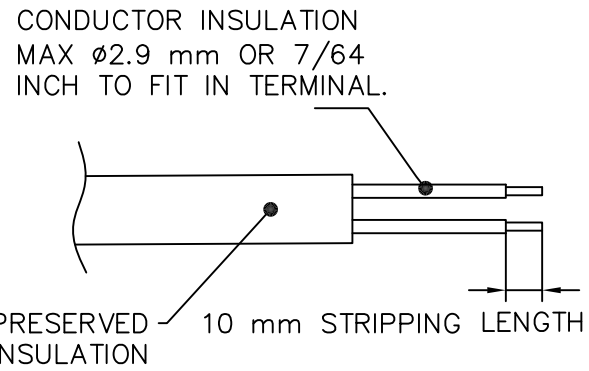
THE ENTITY CONCEPT ALLOWS THE INTERCONNECTION OF INTRINSICALLY SAFE DEVICES WITH ENTITY PARAMETERS NOT SPECIFICALLY EXAMINED IN COMBINATION AS A SYSTEM WHEN:  
 $U_o \leq U_i$ ,  $I_o \leq I_i$ ,  $P_o \leq P_i$ ,  $C_o \geq C_i$  + CABLE CAPACITANCE,  $L_o \geq L_i$  + CABLE INDUCTANCE.



CONDUCTOR CONNECTION	MAXIMUM	
SOLID	4 mm <sup>2</sup>	AWG 11
FLEXIBLE	2.5 mm <sup>2</sup>	AWG 13
FLEXIBLE, FERRULE WITH PLASTIC COLLAR	1.5 mm <sup>2</sup>	AWG 16

CABLE DIAMETER FOR GLANDS WHEN SUPPORTED BY RTR.		
THREAD	1/2"	3/4"
CABLE DIAMETER	6-12 mm	9-16 mm

**CABLE STRIPPING INFORMATION:**



- IS CURRENT LOOP ALTERNATIVE OPTIONS
  - PASSIVE CURRENT LOOP. INPUT VOLTAGE RANGE: 9,4-30V. (INFO 8,7-30V (A<sub>in</sub>), 9,4-30V (A<sub>out</sub>)).
  - ACTIVE CURRENT LOOP. OUTPUT VOLTAGE RANGE: 6.5-23V(A<sub>out</sub>) @ 21.75-0mA (INFO 7,3-23V (A<sub>in</sub>), 6,5-23V (A<sub>out</sub>)).
- NOTE POLARITY FOR CONNECTION OF POLARITY SENSITIVE BUSES AND I/O (E.G. RS485 AND ANALOG I/O).
- NON IS CURRENT LOOP ALTERNATIVE OPTIONS.
  - PASSIVE CURRENT LOOP. INPUT VOLTAGE RANGE: 8-35V (INFO 7,2-35V(A<sub>in</sub>), 8-35V (A<sub>out</sub>)).
  - ACTIVE CURRENT LOOP. OUTPUT VOLTAGE RANGE: 13.1-24V @ 21.75-0mA (INFO 13,7-24V (A<sub>in</sub>), 13,1-24V (A<sub>out</sub>)).
- CONTROL EQUIPMENT CONNECTED TO THE ASSOCIATED APPARATUS MUST NOT USE OR GENERATE MORE THEN 250 VRMS OR VDC.
- CONNECT SHIELD TO GROUND AT ONE END ONLY, OTHERWISE A GROUND LOOP MAY OCCUR.
- RECOMMENDED EXTERNAL FUSE RATING: 2A (SLOW BLOW) / TANK HUB.
- KEEP INSULATION PRESERVED IN AREA AROUND HOUSING INLETS TO AVOID CONTACT BETWEEN CABLES AND SHARP EDGES. THE SHIELD MUST BE ISOLATED FROM THE HOUSING.
- FOR MORE INFORMATION SEE SYSTEM CONTROL DWG 9240040-901.

ISSUED BY EMe-BL	WEEK 1107	PRODUCT CODE 2410	FILE ACAD	INSTALLATION DRAWING TITLE ELECTRICAL INSTALLATION DRAWING 2410 TANK HUB SIL (4-wire) VERSION	
APPROVED BY EE-MK	WEEK 1108	ORIGINAL DWG NO. -	SCALE -	DOC TYPE 02	DWG NO. D9240041-968
<b>ROSEMOUNT</b> Tank Gauging			1 ST ANGLE 	ISSUE 06	SHEET 01/01

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