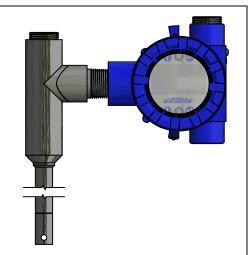


0 = (+) POS 1LOOP 1 = (-) NEG2 = HART3 = HART5 = (-) NEG TEST 6 = N/A7 = N/A8 = N/A9 = N/A



DETAIL A

## **PARAMETER**

<u>LEVEL OUTPUT</u> MEASURED VARIABLE: OUTPUT:

FULL RANGE

TERMINAL SIDE

CLASSIFICATION = Ex ia

WALL WITH POTTED WIRES

SEPARATING THE TWO

SEALED COMPARTMENT #2

CLASSIFICATION = Ex ia

ELECTRONICS SIDE

COMPARTMENTS

**GAUGE LOOP INPUT VOLTAGE RANGE:** REVERSE POLARITY PROTECTION:

ENTITY PARAMETERS:

Ui = 28 VDCIi = 0.093 APi = 0.650 W $Ci = 0.41 \mu F$ Li = 12 uH

**SPECIFICATION** 

4-20 mA, HART

SERIES DIODES

LIQUID LEVEL, INTERFACE LEVEL

12.5 TO 28VDC (12.5 V @ 20mA)

12" TO 360" [304.8mm TO 9144mm]

STAGE 1: LINE-TO-GROUND SURGE SUPPRESSORS: TRANSIENT PROTECTION:

STAGE 2: LINE-TO-LINE AND LINE-TO-GROUND TRANSIENT

SUPPRESSORS: 1500 WATTS PEAK (10/1000 µSEC.)

FIELD INSTALLATION MOUNTING:

WIRING:

ON SIDE OF MAGNETIC LEVEL GAGE VIA BRACKETS AND HOSE CLAMPS 2-WIRE CONNECTION, SHIELDED, TWISTED PAIR, WITH

OVERALL SHIELD TO SCREW TERMINALS THROUGH A 3/4 NPT CONDUIT OPENING. MIN 24 AWG/ MAX 16 AWG [.20mm<sup>2</sup>/1.31mm<sup>2</sup>]

MAX CABLE LENGTH: SHIELDED TWISTED PAIR: 10,000 ft [3048 m]

AGENCY APPROVALS NORTH AMERICAN

**ATEX IECEx** 

AMBIENT TEMP. RANGE

CERTIFICATE NUMBERS

ATEX CERTIFICATE NUMBER: IECEx CERTIFICATE NUMBER:

CONTROL NUMBER AND STANDARDS:

Class I Div. 1 Groups C,D T4 IP66/TYPE 4X Class I Zone 1 AEx db ia IIB T4 Gb IP66/TYPE 4X C €2575 II 2G Ex db ia IIB T4 Gb IP66/TYPE 4X

Ex db ia IIB T4 Gb IP66/TYPE 4X -40°F [-40°C]  $\leq$  Ta  $\leq +140$ °F [+60°C]

ITS-I21ATEX28848X IECEx ETL 21.0003X

CONFORMS TO UL STDS 913, 1203, 60079-0, 60079-1, & 60079-11 CERTIFIED TO CSA STDS C22.2 #30, 60079-0, 60079-1, & 60079-11

## 6 | 02/03/2021 | ADD ATEX AND IECEX CERTIFICATION NUMBERS; RELEASE TO PRODUCTION ON CDC 21-021 COMBINE THE TWO WARNINGS INTO ONE AND ADD IN FRENCH TRANSLATION; RE-ARRANGED NOTES INTO SECTIONS; ADDED ZONE LOCATIONS IN UPPER LEFT VIEW; ADDED Um, CHANGED Pd TO Pi: CDC 20-598 4 08/31/2020 CHANGE CI VALUE FROM 0.40 TO 0.41. CHANGE ALL "T6" MARKINGS TO "T4". REMOVE TERMINAL SIDE ONLY NOTE IN UPPER LEFT VIEW AND CHANGE "db" TO "ia" IN SECTION B-B. CDC 20-445 TBL 3 08/27/2020 REMOVED NOTE ABOUT DISCONNECTING POWER BEFORE SERVICING. ADDED NOTE ABOUT DIFFERENT INGRESS PROTECTION SCENARIOS FOR SPECIAL CONDITIONS OF USE. CDC 20-441 TBL 2 08/19/2020 CHANGE UPPER LEFT VIEW TO SHOW THE WIRES GOING INTO TERMINAL BLOCK INSTEAD. TBL UPDATED ENTITY PARAMTER CI FROM 10nF TO 0.4uF. UPDATED ENTITY PARAMETER LI FROM 5uH TO 12uH. ADDED VIEWS DETAILING THE DUAL COMPARTMENTS. CDC 20-332 1 6/17/2020 TBL 0 04/01/2020 DRAWING AT AGENCY FOR APPROVAL. CDC 20-330/TBL TBL REV DATE REVISION BY DRAWING NO. MANUFACTURED BY DRAWN: TBL

## SPECIAL CONDITION OF USE:

NETTOYÉES QU'AVEC UN TISSU HUMIDE.

1. IP66: ALL COVERS FULLY CLOSED.

INSTALLATION:

NOTES:

1. JMTG SHOWN

**WARNINGS:** 

3. AGENCY CONTROLLED DOCUMENT.

2. IP20: WHEN THE WINDOW COVER IS OPEN EXPOSING ELECTRONICS TO ATMOSPHERE.

2. THIS DEVICE IS A LOOP (4/20mA) POWERED LIQUID LEVEL SENSOR.

1. ALL NATIONAL AND LOCAL CODES AND REGULATIONS MUST BE ADHERED

2. APPROVED Ex SEALING FITTING WITHIN 457mm (18") OF ENCLOSURE.

SURFACES SHOULD ONLY BE CLEANED WITH A DAMP CLOTH.

6. SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

2. SEE PRODUCT IOM DOCUMENTATION FOR MECHANICAL INSTALLATION.

1. INSPECT ALL PARTS FOR DAMAGE BEFORE INSTALLATION.

DESIGNED TO BE USED WITH MAGNET LEVEL GAGES OR MAGNETIC FLOAT SYSTEM.

TO WHEN INSTALLING THE LEVEL INSTRUMENT IN A HAZARDOUS ENVIRONMENT.

3. WARNING: THE EQUIPMENT CONTAINS NON-METALLIC/PAINTED ENCLOSURE PARTS.

. CABLES SHOULD BE RATED >9°F [5°C] ABOVE MAXIMUM AMBIENT TEMPERATURE.

TO PREVENT THE RISK OF ELECTROSTATIC SPARKING, THE NON-METALLIC/PAINTED

USER SHOULD TAKE PRECAUTIONS TO AVOID INGRESS THAT MIGHT DAMAGE PROTECTIONS WHEN COVER IS REMOVED.

AVERTISSEMENT : LES ÉQUIPEMENTS CONTIENNENT DES PIÈCES DE BOÎTIERS NON MÉTALLIQUES/PEINTES. AFIN DE PRÉVENIR UN RISQUE D'ÉTINCELLES ÉLECTROSTATIQUE, LES SURFACES NON MÉTALLIQUES/PEINTES NE DEVRAIENT ÊTRE

5. THE CONNECTION OF THE OUTSIDE GROUND LUG TO A SAFETY EARTHING GROUND SYSTEM IS REQUIRED.

- 3. VOLTAGE NEEDS TO BE SUPPLIED THROUGH APPROVED HART® COMPATIBLE ISOLATOR BARRIER.
- 4. TAKE PRECAUTION TO AVOID POSSIBLE IGNITION HAZARDS BY IMPACT OR FRICTION.



**SECTION B-B** 

CONTROL AND INSTALLATION DRAWING: **INTRINSICALLY SAFE: JMT** 

CHECKED: SS 6 CI-35152-IS DATE: 04/01/2020 DC: 6:21-021:TBL:02/03/2021 MATERIAL: PER ORDER PART NUMBER

JERGUSON

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