14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

September17, 2015

SCOTT ISLIP
ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L0R 2H8
CA

Service Request Type.: BPV-National BC
Service Request No.: 1677758
Your Reference No.: MODEL: CLS50, CLS50D
Registered to.: ENDRESS + HAUSER CONDUCTA INC

Dear SCOTT ISLIP,

Please find enclosed the original response from BC, registered under the CRN No.: 0F1251.051.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you.
For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3423
Fax : 416-231-6183
Email :tfrancis@tssa.org

505 - 6th Street, Suite 200
New Westminster, BC V3L 0E1

Toll Free: 1-866-566-SAFE
Fax: (778) 396 - 2064
www.safetyauthority.ca

TECHNICAL STANDARDS & SAFETY AUTHORITY
14TH FLOOR CENTRE TOWER-3300 BLOOR STREE
TORONTO ON M8X 2X4

Date: July 20, 2015
Account #: 35231
Journal #: 63141
Our File #: 5546664

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA SR# 1677758, for a Fitting is accepted for registration as follows:

Registered To: ENDRESS + HAUSER CONDUCTA **CRN:** 0F1251.051

MDMT: -4 deg F **MAWT:** 356 deg F **MAWP:** 290 psig

Drawing #: Indumax CLS50/50D **Drawing Revision:** 0

Conditions Of Registration:

Registration of Indumax Inductive Conductivity Sensor Model: CLS50/CLS50D.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

TSSA's & ACIC's registration notes apply. As required by CSA B51 4.2.1, this registration expires on April 13, 2025. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@safetyauthority.ca
Design Administration

cc:

SR # 1646244

ENDRESS+HAUSER CONDUCTA INC.
4123 LA PALMA AVE.
ANAHEIM, CA.
92807, USA

25-May-15

SCOPE OF CRN REGISTRATION

Model	Sensor Material	CRN Maximum Allowable Working Pressure (psig)	CRN Maximum Allowable Working Temperature (F)
CLS50/CLS50D	PFA	290	257
CLS50/CLS50D	PEEK	290	356

CLS50D

Approval

AA	Non-hazardous area
BA	Atex II 1G Ex ia IIc T3/T4/T6
BV	Atex II 3G Ex nL IIC T4/T6 + NEPSI Ex nL IIC T4/T6
C2	CSA IS NI Cl. I, II, III, Div. 1&2, Group A-G
FB	FM IS NI Cl. I, II, III, Div. 1&2, Group A-G
NA	NEPSI Ex ia IIC T4/T6

Process Connection

A	Lap joint flange DN 50 PN 10, PP-GF
B	Lap joint flange ANSI 2" 150 Lbs, PP-GF
C	Lap joint flange JIS 10 K 50 A, PP-GF
1	Thread G3/4"
2	Thread NPT 1", PEEK
3	Flange DN 50 PN 16, stainless steel 1.4404(AISI 316L)
4	Flange ANSI 2" 300 Lb., stainless steel 1.4404 (AISI 316L)
5	Flange DN 50 PN 16, stainless steel 1.4404 (AISI 316L), PTFE sealing disk
6	Flange ANSI 2" 300 Lb., stainless steel 1.4404 (AISI 316L), PTFE sealing disk
7	Flange JIS 10 K 50 A, stainless steel 1.4404 (AISI 316L), PTFE sealing disk
8	Flange DN 50 PN 16, stainless steel 1.4404 (AISI 316L), welded PFA sealing plate sensor

Material: sensor, seal, adapter

B	PEEK, VITON, PEEK
C	PEEK, CHEMZRAZ, PEEK
D	PFA, CHEMZRAZ, stainless steel 1.4571 (AISI 316 Ti)

Cable length

1	3 m (9.84 ft)
2	7 m (23 ft)
3	15 m (49 ft)
7	... m fixed cable, max 50 m
8	... ft fixed cable, max 164 ft

Cable connection

1	Fixed cable, terminated cable cores
2	Fixed cable, M12 plug

CLS50D **order code**

CLS50

Approval

A	Non-hazardous area
G	Atex II 1G Ex ia IIC T4/T6 Ga
H	NEPSI EX ia IIC T4/T6
L	Non-hazardous area, PWIS free
O	FM IS NI Cl. I, II, III, Div. 1&2, Group A-G
S	CSA IS NI Cl. I, II, III, Div. 1&2, Group A-G
T	TIIS
V	ATEX II 3G Ex nl IIC T4/T6 + NEPSI Ex nl IIC T4/T6

Process Connection

A	Lap joint flange DN 50 PN 10, PVDF
B	Lap joint flange ANSI 2" 150 Lbs, PVDF
C	Lap joint flange JIS 10 K 50 A, PVDF
1	Threaded G3/4"
2	Thread NPT 1", PEEK
3	Flange DN 50 PN 16, stainless steel 1.4404 (AISI 316L)
4	Flange ANSI 2" 300 lbs, stainless steel 1.4404 (AISI 316L)
5	Flange DN 50 PN 16, stainless steel 1.4404 (AISI 316L), PTFE sealing disc
6	Flange ANSI 2" 300 lbs, stainless steel 1.4404 (AISI 316L), PTFE sealing disc
7	Flange JIS 10 K 50 A, stainless steel 1.4404 (AISI 316L), PTFE sealing disk
8	Flange DN 50 PN 16, stainless steel 1.4404 (AISI 316L), welded PFA sealing plate sensor

Material: sensor, seal, adapter

A	PFA, CHEMZRAZ, stainless steel 1.4571 (AISI 316 Ti)
B	PEEK, VITON, PEEK
C	PEEK, CHEMZRAZ, PEEK

Cable length

1	5 m (16 ft) fixed cable, max. 125 C (257 F)
2	10 m (32 ft) fixed cable, max. 125 C (257 F)
3	20 m (65 ft) fixed cable, max. 125 C (257 F)
4	fixed cable of specified length, max. 55 m (180 ft), max. 125 C (257 F)
5	5 m (16 ft) fixed cable, max. 180 C (356 F) (PEEK only, version for non-hazardous area only)
6	10 m (32 ft) fixed cable, max. 180 C (356 F) (PEEK only, version for non-hazardous area only)

CLS50D **order code**

THIS IS PART OF CRN SF1251.05
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

SF1251.05
Safety AUTHORITY
July 25 2015
BCSAJ # 63142

Notes:

1) When process connections A,B,C,3,4,5,6,7 or 8 are specified the flange used is to be complete with a CRN Number and the maximum operating conditions are limited to the above CRN Pressure/Temperature ratings or the flange code of construction ratings, whichever is more restrictive.

2) When process connection 2 is specified the maximum operating conditions are limited to the CRN Pressure/Temperature ratings.

3) Other process connections not shown above may be supplied in different sizes, dimensions, pressure classes, materials, etc. as long as those process connection fittings are complete with a CRN. When other process connection fittings are supplied the maximum operating conditions are limited to the above CRN Pressure/Temperature ratings or to the connection fitting CRN registered code of construction, whichever is more restrictive.