CSA INTERNATIONAL

Certificate of Compliance

Certificate:	1575301	**Master Contract:**	205557
Project:	1733901	**Date Issued:**	2005/12/07

Issued to: **Endress + Hauser Conducta GmbH & Co**

Dieselstrasse 24
Gerlingen, 70839
Germany
Attention: Dr. Uwe Tenner

The products listed below are eligible to bear the CSA Mark shown

Issued by: Glenn Black

Glenn Black

Authorized by: Patricia Pasemko, Operations Manager

Patricia Pasemko

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non - Incendive Systems - For Hazardous Locations

Ex [ia] IIC:

Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III; Type 4:

MYCOM S, type CPM153-S pH/ORP transmitter or type CLM153-S conductivity transmitter, rated 120/240 Vac, 50/60 Hz, 18 VA or 24Vac/Vdc, 12VA; suitable for installation in Class I, Div. 2, Groups A,B,C,D or Class II, Div.1, Groups E,F,G, Class III; temperature code T4. May be used with type CPG30-S or CPG300-S Controllers. Provides intrinsically safe circuits and contains non-incendive field wiring circuits when installed per connection drawing 136783.

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APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 25-1966 - Enclosures for Use in Class II Groups E, F, and G Hazardous Locations

CAN/CSA C22.2 No. 94-M91 - Special Purpose Enclosures

CSA Std C22.2 No. 142-M1987 - Process Control Equipment

CAN/CSA C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

CSA Std C22.2 No. 213-M1987 - Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA-E60079-11:02 - Electrical apparatus for explosive gas atmospheres, Part 11: Intrinsic safety "i"

CSA INTERNATIONAL

Supplement to Certificate of Compliance

Certificate: 1575301 **Master Contract:** 205557

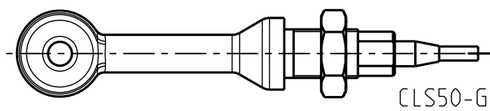
The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1733901	2005/12/07	Addition of MKDI Modules and MEMOSENS Sensors

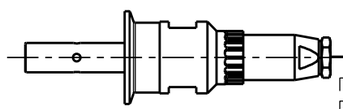
HAZARDOUS LOCATION

Class I, Division 1, GroupsA,B,C,D.
Class I, Zone 1, Groups IIC



CLS50-G.....
max. cable length
60m / 196 ft

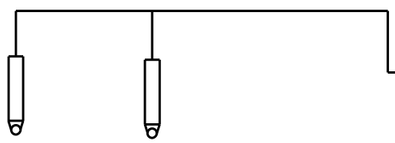
CLS12/13
CLS15
CLS16
CLS21
or
other
simple apparatus
approved
by CSA



max. cable length
50m / 164 ft

CTSI
CPS11/12/13
CPS41/42
CPS71/72
CPF81-...A.
CPF81-...C.
CPF82-...A.
or other simple
apparatus approved
by CSA

max. cable length 50m / 164 ft



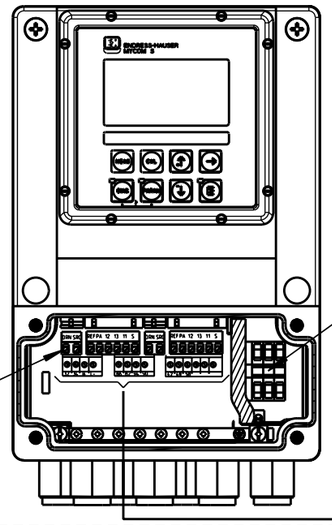
max. cable length
100m / 328 ft

CPS 401/441/471/491
(IsFET-pH-Sensor)

HAZARDOUS LOCATION

Class I, Division 2, Groups A,B,C,D.
Class II, Division 1, Groups E,F,G, Class III
Class I, Zone 2, Groups IIC T4
Ta = -10 °C..+50 °C

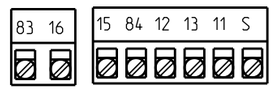
CPM153-S.....
CLM153-S.....



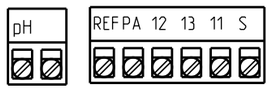
Input connection
details (see Note 4
and Details 2 and 3)

I/O connection
details (see sheets
2 and 3)

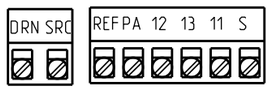
Sensor connection
details (Note 5)
CLM153-S



Sensor connection
CPM153-S1 (-S2)

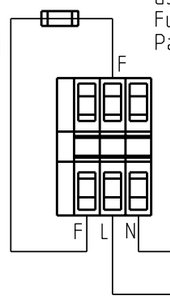


Sensor connection
CPM153-S2 (-S4)



NON HAZARDOUS LOCATION

Detail 2)

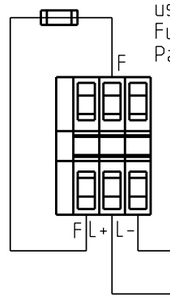


use only
Fusemodule E+H
Part-No.51507086 (500mA)

Mains
connection
N 115VAC
L1

Order code	Version
C.M153-S...1....	100 ... 230 VAC

Detail 3)



use only
Fusemodule E+H
Part-No.51507086 (500mA)

\- 24DC
\+

Order code	Version
C.M153-S...8....	24 AC/DC

NOTES

1. Install per the Canadien Electrical Code,Part I
2. Substitution of components may impair intrinsic safety and suitability for use in Class I, Div. 2 locations.
3. Control room equipment connected in the non-hazardous location must not use or generate voltages greater than 250Vrms
4. Supply wiring must be installed per Class I, Div. 2 and/or Class II/III, Div. 1 wiring methods, as applicable.
5. Sensor wiring is intrinsically safe for connection to specified sensors.
6. Refer to Sheet 2 and 3 for I/O connection wiring details.
7. When the C.M153 and CPG30/300 are installed in Class II and ClassIII, Division 1 hazardous locations, applicable Class II and III, Div. 1 wiring practices must be followed, except for intrinsically safe wiring to the sensors.

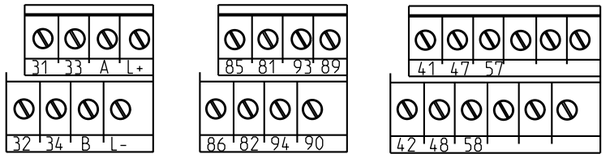
					Kantenverrundung R 0.2			USED FORMAT: 0414 - 3A
						Datum	Name	Werkstoff: / Halbzeug:
					Bearb.	23.01.03	Si	
					Geprüft	23.01.03	Ha	Oberfläche: / Teilegewicht:
					Freimaßtoleranz: DIN ISO 2768 - mittel			Maßstab: — / Zng.-Nr. 136783
					ENDRESS+HAUSER CONDUCTA GmbH+Co, Dieselstraße 24, Postfach 10 01 54, D-70839 Gerlingen, Telefon 07156/209-0, Telefax 07156/28158			Benennung: Control drawing Mycom 153-S
--	Approval	21.05.04	Ku	Ha				
Ind.	Änderung	Datum	Bearb.	Gepr.	Verwendung: CXM153 CSA			Page 1/ 3

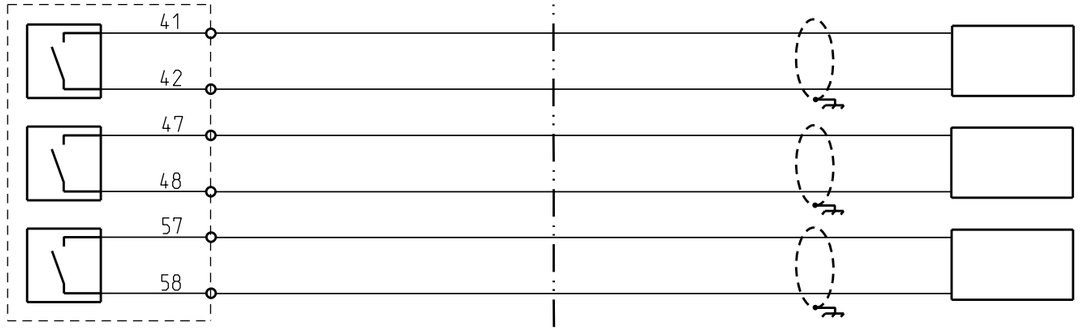
HAZARDOUS LOCATION

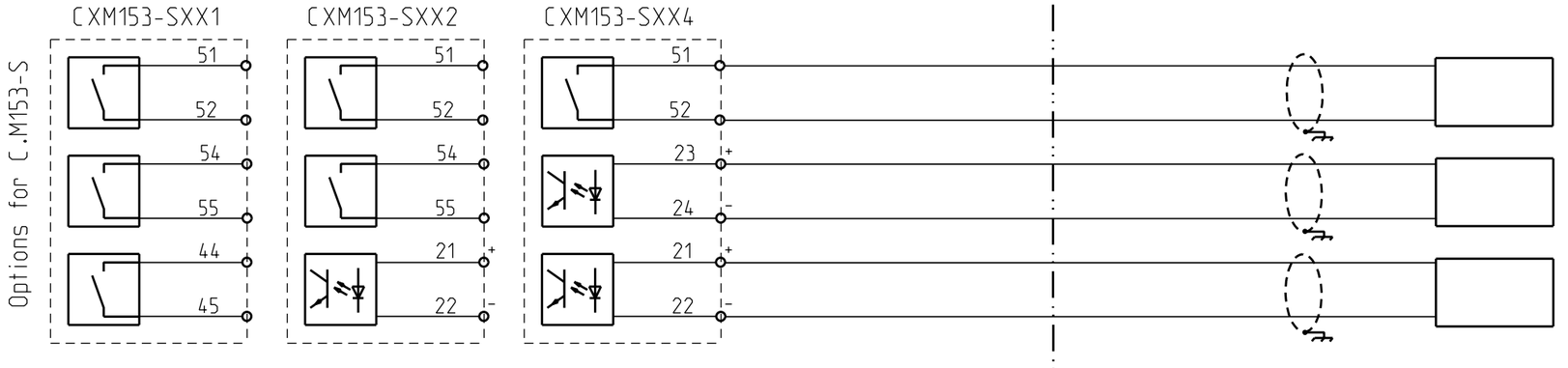
Class I, Division 2, Groups A,B,C,D.
Class II, Division 1, Groups E,F,G, Class III

NON HAZARDOUS LOCATION

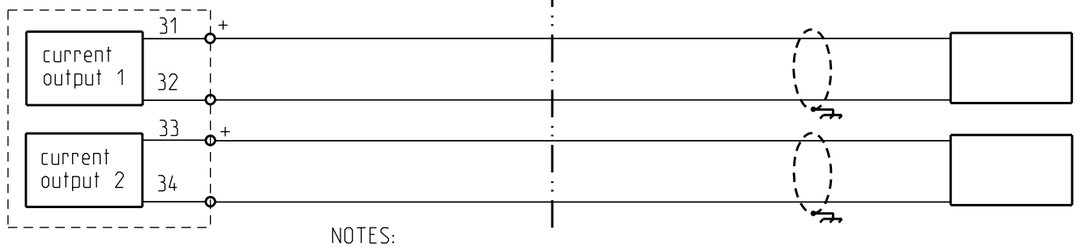
I/O connection terminal layout

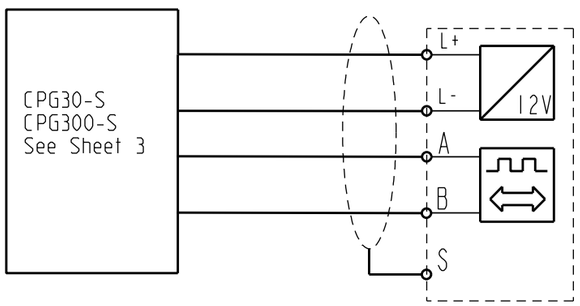


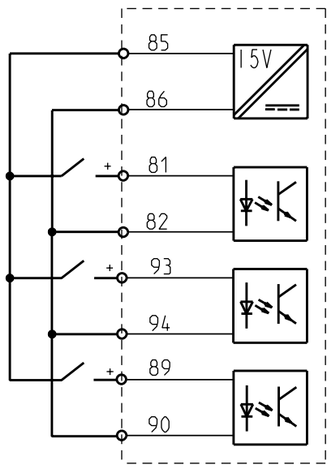




CSA Certified IS barriers
with entitiy parameters
Voc ≤ 30V, Isc ≤ 100mA







Digital Inputs
-connect only to switches
powered by terminals 85/86

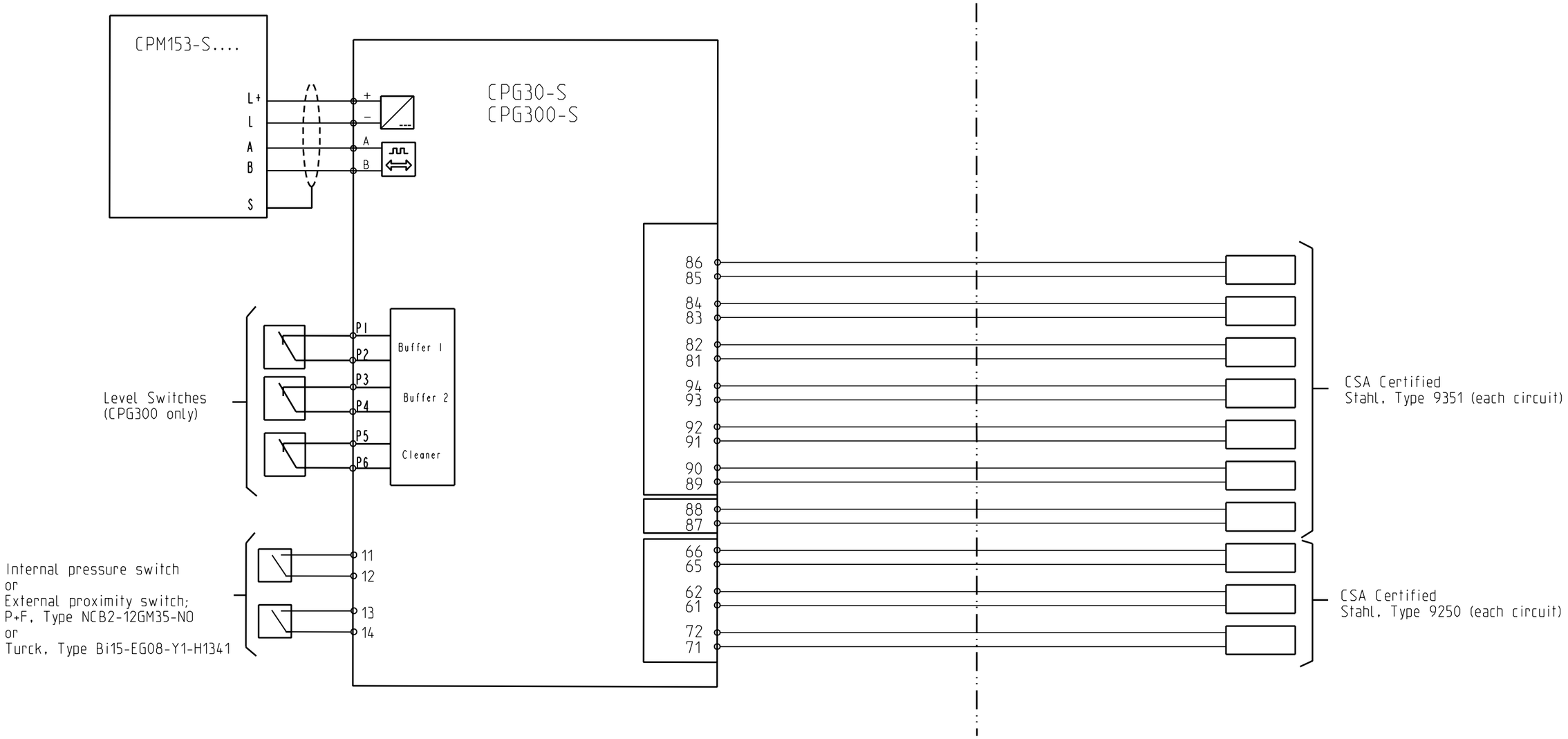
NOTES:
1. Install per the Canadian Electrical Code, Part I.
2. Substitution of components may impair intrinsic safety and suitability for use in Class I, Div. 2 locations.
3. Control room equipment connected in the non-hazardous location must not use or generate voltages greater than 250 Vrms.
4. Certified intrinsic safety barriers must be used to maintain IS outputs to sensors and nonincendive wiring (where noted). Each barrier circuit must use twisted, shielded pairs. Cable insulation and shielding must be maintained to within 10mm from terminal block connection.
5. Wiring to CPG30-S/CPG300-S and Digital Input switches is nonincendive for Class I, Div. 2 locations.
6. When the C.M153 and CPG30/300 are installed in Class II and ClassIII, Division 1 hazardous locations, applicable Class II and III, Div. 1 wiring practices must be followed, except for intrinsically safe wiring to the sensors.

					Kantenverrundung R 0.2			USED FORMAT: 0414 - 3A
						Datum	Name	Werkstoff: Halbzeug:
					Bearb.	23.01.03	Si	
					Geprüft	23.01.03	Ha	Oberfläche: Teilegewicht:
					Freimaßtoleranz: DIN ISO 2768 - mittel			Maßstab: —— Zng.-Nr. 136783
					ENDRESS+HAUSER CONDUCTA GmbH+Co, Dieselstraße 24, Postfach 10 01 54, D-70839 Gerlingen, Telefon 07156/209-0, Telefax 07156/28158			Benennung: Control drawing Mycom 153-S
--	Approval	21.05.04	Ku	Ha				
Ind.	Änderung	Datum	Bearb.	Gepr.	Verwendung: CXM153 CSA			Page 2 /3

HAZARDOUS LOCATION

Class I, Division 2, Groups A,B,C,D.
Class II, Division 1, Groups E,F,G, Class III

NON HAZARDOUS LOCATION



NOTES:
1. Install per the Canadian Electrical Code, Part I.
2. Substitution of components may impair intrinsic safety and suitability for use in Class I, Div. 2 locations.
3. Control room equipment connected in the non-hazardous location must not use or generate voltages greater than 250 Vrms.
4. Certified intrinsic safety barriers must be used to maintain IS outputs to sensors and nonincendive wiring (where noted). Each barrier circuit must use twisted, shielded pairs. Cable insulation and shielding must be maintained to within 10mm from terminal block connection.
5. Wiring to MYCOM CPM153-S, Level Switches and external proximity switches is nonincendive for Class I, Div. 2 locations.
6. When the C.M153 and CPG30/300 are installed in Class II and ClassIII, Division 1 hazardous locations, applicable Class II and III, Div. 1 wiring practices must be followed, except for intrinsically safe wiring to the sensors.

					Kantenverrundung R 0.2		
						Datum	Name
					Bearb.	23.01.03	Si
					Geprüft		
					Freimaßtoleranz: DIN ISO 2768 - mittel		
--	Approval	21.05.04	Ku	Ha	ENDRESS+HAUSER CONDUCTA GmbH+Co, Dieselstraße 24, Postfach 10 01 54, D-70839 Gerlingen, Telefon 07156/209-0, Telefax 07156/28158		
Ind.	Änderung	Datum	Bearb.	Gepr.	Verwendung: CXM153 CSA		

Werkstoff:	Halbzeug:
Oberfläche:	Teilegewicht:
Maßstab:	Zng.-Nr. 136783
Benennung: Control drawing Mycom 153-S	
	Blatt 3 / 3