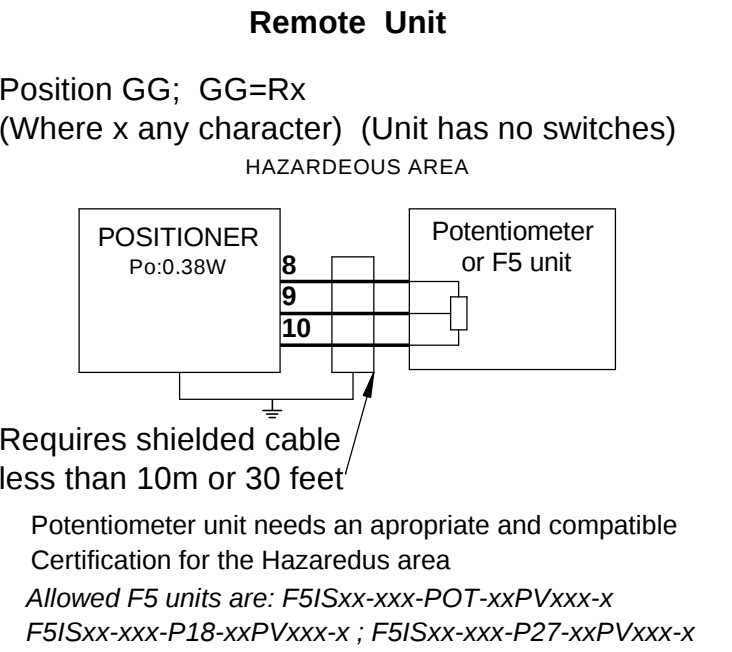
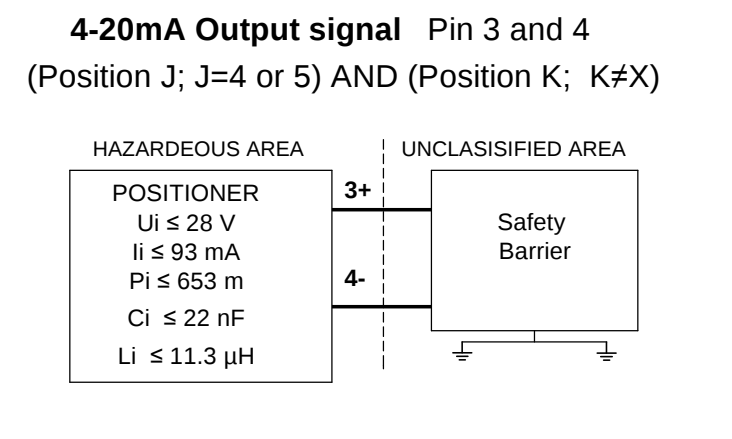
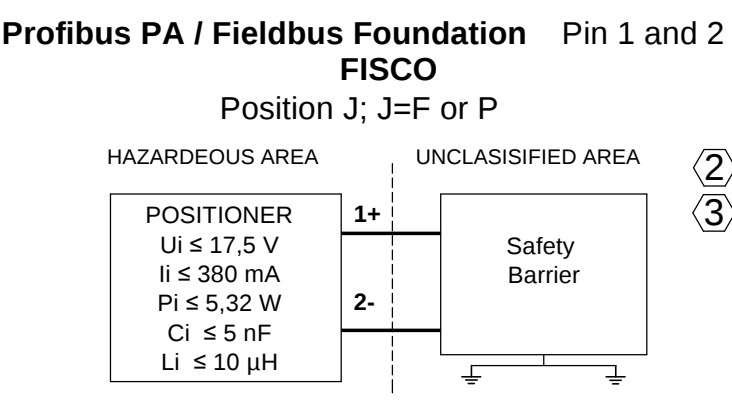
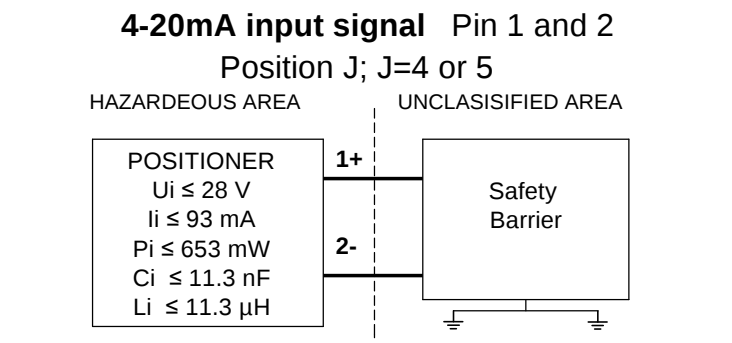
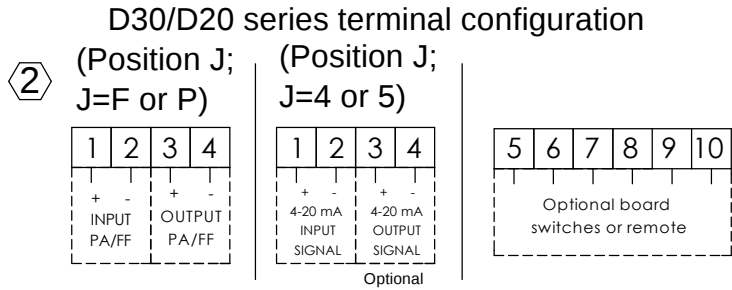


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model code position K										model code position B				A	E	F
	Note	SWITCH	Type	Ci nF	Li uH	Ui V	Ii mA	Pi mW	Min. temp	T4	T5	T6	T (IIIC Da)	ATEX ia	IECEX ia	FM IS /NI
5	2,4	SJ2-SN	NAMUR	30	100	16	25	34	-40	96	68	56	100	Ga	Ga	IS/NI
6	1,4	SJ2-N	NAMUR	30	100	16	25	34	-25	96	68	56	100	Ga	Ga	IS/NI
7	1	SC2-N0-GN	NAMUR	150	150	16	25	34	-25	95	67	55	100	Ga	Ga	-
8	1	SC2-N0-YE	NAMUR	150	150	16	25	34	-25	95	67	55	100	Ga	Ga	-
G		Mechanical switch gold	Mec.	1	1	28	45	315	-40	78	60	45		Ga	Ga	IS/NI
N	3,4	NJ2-V3-N	NAMUR	40	50	16	25	34	-25	96	68	56	100	Ga	Ga	IS/NI
P		Hamlin Proximity	Reed	1	1	28	45	315	-40	80	-	-		Ga	Ga	IS/NI
S		Mechanical switch	Mec.	1	1	28	45	315	-40	78	60	45		Ga	Ga	IS/NI
U	3,4	NCN4-V3-N0	NAMUR	100	100	16	25	34	-25	73	88	100	100	Ga	Ga	IS/NI

- note 1 ATEX IEC : Higher Ui,Li and Pi with lower ambient temeratures are allowed see Certificate PTB 99 ATEX 2219 X or IECEx PTB 11.0091X
- note 2 ATEX IEC : Higher Ui,Li and Pi with lower ambient temeratures are allowed see Certificate PTB 00 ATEX 2049 X or IECEx PTB 11.0092X
- note 3 ATEX IEC : Higher Ui,Li and Pi with lower ambient temeratures are allowed see Certificate PTB 00 ATEX 2032 X or IECEx PTB 11.0021X
- note 4 cFMus : For safe IS installement and alternative safty values se FM control drawing: 116-0165G , and for NI installement whitout assosiated apparatus se control drawing: 116-0155E.

D30 Model code

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

A A A B C D E - F G G H H H - I J K L M N

Position B designates certification

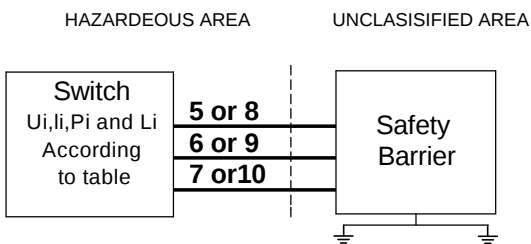
Position J designates communication protocol

Position K designates switch type

Position H 13 designates Indicator type

Pos B			
D	General purpose	B	Inmetro
E	IEC	K	Kosha
A	ATEX	T	TR CU
F	FM IS/NI	N	NEPSI

switches



terminal 7 and 10 not used for Namur Switches

Terminal 5-7 lower switch

Terminal 8-9 upper switch

ATEX, IEC, cFMus

Warnings:

Substitution of components may impair suitability for hazardous (Classified) locations.

Do not disconnect equipment unless area is known to be non-hazardous.

To prevent ignition of flammable or combustibile atmospheres, disconnect power before servicing, or; read, understand and adhere to the manufacturer's live maintenance procedures.

Avoid intensive rubbing or brush charging of plastic parts in combustibile atmospheres.

Avertissement:

La substitution de composants peut compromettre la sécurité intrinsèque.

Ne déconnectez pas l'équipement tant que la zone n'est pas dangereuse.

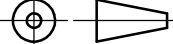
Pour éviter l'inflammation des atmosphères inflammables ou combustibles, débranchez l'alimentation avant de procéder à l'entretien, ou; lire, comprendre et respecter les procédures de maintenance en direct du fabricant.

Éviter de frotter ou de charger à la brosse des pièces en plastique dans des atmosphères combustibles.

Special condition for safe use se Sheet page 2

Scheduled drawing

No modification permitted without reference to Notified Body

DESCRIPTION		MATERIAL		DIMENSION		ANNOTATION	
Control Drawing		—		—			
HOLE TOL.	UNSPECIFIED TOLERANCES ACCORDING TO:		SURFACE		PROJECTION EUROPA		
—	—		—				
 PMV Positioners PMV Automation AB				DRW BY	Rev.	SCALE	DATE
				LRW	4	—	2017-12-11
				DRAWING NO.			
				D4-086C			
KORTA GATAN 9 SE-171 54 SOLNA SWEDEN – Tel:+46(0)8 555 106 00 – www.pmv.nu							

Sheet 1:2

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FM only

HAZARDOUS AREA:

Class I,II Division 1 Group A,B,C,D T4
Class I Zone 0,1 AEx ia IIC T4
Class I Division 2 Group A,B,C,D T4
Class I Zone 2 AEx n IIC T4
ClassIII Div 1&2 T4

INSTALLATION NOTES:

- Control equipment connected to the associated apparatus shall not use or generate more than 250Vrms or Vdc.
- Associated apparatus manufacturer's installations drawing shall be followed when installing this equipment.
- Run shielded interconnection cable with shield connected to FM approved associated apparatus ground.

The intrinsically safety entity concept:

Allows the interconnection of two intrinsically safe devices FM approved with entity parameters not specifically examined in combination as a system when:
 U_o or V_o or $V_t \leq V_{max}$, I_o or I_{sc} or $I_t \leq I_{max}$, $P_o \leq P_i$, C_a or $C_o \geq C_i + C_{cable}$, L_a or $L_o \geq L_i + L_{cable}$.

The non-incendive field wiring concept:

Allows the interconnection of non-incendive field wiring apparatus with associated non-incendive field apparatus, using any of the wiring methods permitted for non-hazardous (unclassified) locations when:
 U_o or V_o or $V_t \leq V_{max}$, I_o or I_{sc} or $I_t \leq I_{max}$, $P_o \leq P_i$, C_a or $C_o \geq C_i + C_{cable}$, L_a or $L_o \geq L_i + L_{cable}$.

The non-incendive:

Use IS values as general ($V_{max} = U_i$; $I_{max} = I_i$) except for folowing
Namur Switch (Pos K=5,6,N or U)
 $V_{max} = 25V$, I_{max} is not required for this current controlling circuit
Proximity Switch (Pos K=P)
 $V_{max} = 30V$, $I_{max} = 500mA$
4-20mA input signal (Pin 1 and 2)
 $V_{max}= 30V$, $I_{max} =40mA$
4-20mA Output signal Pin 3 and 4
 $V_{max}= 30V$, I_{max} is not required for this current controlling circuit

For division 1 installations:

- The configurations of associated apparatus shall be FM approved under entity concept.
- Division1 installations should be in accordance with ASI/ISA RP12.06.01
“installation of intrinsically safe systems for hazardous (classified) locations” and the national electrical code (ANSI/NFPA 70).

For division 2 installations:

- Using non-incendive field wiring concept, the associated apparatus shall be FM approved under entity concept or non-incendive field wiring concept.
- The associated apparatus is not required to be FM approved under entity concept or non-incendive field wiring concept. If the unit is installed in accordance with the national electrical code (ANSI/NFPA 70) for division 2 wiring methods excluding non-incendive field wiring.

ATEX, IEC

(Including IEC related Certificates)

4

Special Conditions for Safe Use

The enclosure of PMV D30(D20) Intrinsically safe version is made of aluminium and any impact or friction caused by external objects shall be avoided in the application.

The intrinsic safe circuits D30(D20) is insulated from earth and complies with the dielectric strength test of 500 V ac.

The surface area of the plastic parts on the cover exceeds the limits specified in EN 60079-0 for II 1G (EPL Ga) for gas group IIC and intensive rubbing or brush charging should be avoided when used in an IIC explosive atmosphere.

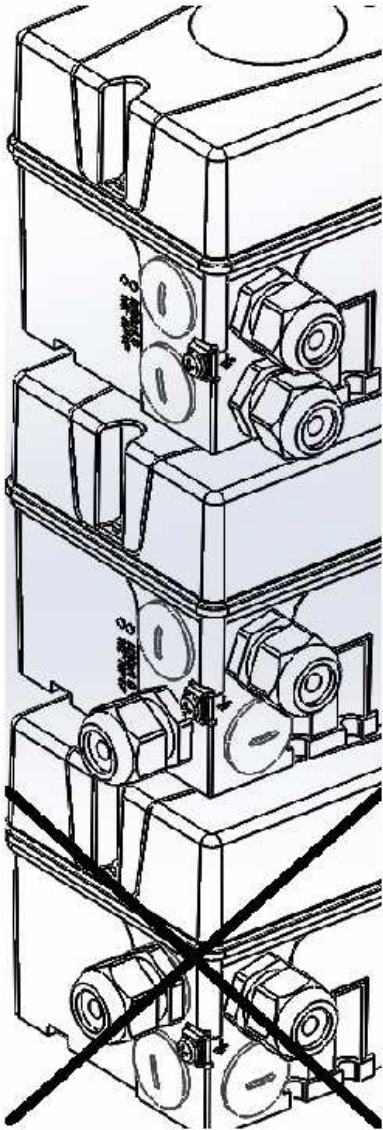
The cable connection of the Remote Unit with the D30(D20) unit shall be type A or B in accordance with EN 60079-25. The cable must be adequately mechanically protected in all instances and have a temperature rating for the ambient temperature range at the site.

General requirements for units with 4 conduit openings and NPT threading.

Model code position D=N and Position E= 4 or F

1

Cable glands must be used when installing.
Cable glands may not be installed on the same level.
(se ilustration)
A maximum of two cable glands may be used, the unused openings must be plugged by supplied blanks or other suitable blanks.



Allowed

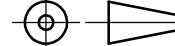
Allowed

Prohibited

Sheet 2:2

REVISIONS			
REV.	DESCRIPTION	DATE	Sig.
1	All cFMus only information added, french translation of warning added,Cable cland restriction added.	2019-04-29	LRW
2	ATEC and IEC FISCO related information added all refrences to "dust" removed	2019-09-18	LRW
3	cFMus: FISCO added; cFMus: 4-20 mA Ci value lowered ;General: added certification table	2019-11-19	LRW
4	Special conditions for ATEX IEC added Ci Value change rev 3 revoked	2020-03-10	LRW

Scheduled drawing
No modification permitted without reference to Notified Body

DESCRIPTION		MATERIAL		DIMENSION		ANNOTATION	
Control Drawing		—		—			
HOLE TOL.	UNSPECIFIED TOLERANCES ACCORDING TO:		SURFACE		PROJECTION EUROPA		
—	—		—				
 PMV Positioners D30/D20				DRW BY	Rev.	SCALE	DATE
				LRW	4	—	2017-12-11
				DRAWING NO.			
				D4-086C			
PMV Automation AB							
KORTA GATAN 9 SE-171 54 SOLNA SWEDEN – Tel:+46(0)8 555 106 00 – www.pmv.nu							