

RA, RB, RC, RD, RE and RF
QPSus Control drawings for installations in
hazardous locations that conform to
US standards



Last update: 6 May 2022

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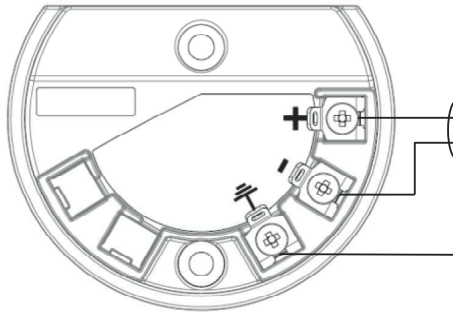
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HAZARDOUS (CLASSIFIED) LOCATION

Class I/II/III, Div 1, GPS ABCDEFG
Class I, Zone 0, IIC
Zone 20, IIIC

Entity Parameters:

$U_i (V_{max}) = 30 \text{ V}$
 $I_i (I_{max}) = 130 \text{ mA}$
 $P_i (P_{max}) = 1.0 \text{ W}$
 $C_i = 10 \text{ nF}$
 $L_i = 0 \text{ } \mu\text{H}$



NON HAZARDOUS (UNCLASSIFIED) LOCATION

Approved Associated Apparatus with Entity Parameters (see Note 4)

CONNECTIONS FOR ENTITY CONCEPT OF 2 WIRES / 4...20 mA HART VERSION

Notes:

- 1) Installation shall be in accordance with ANSI / ISA-RP 12.06.01, "Installation of Intrinsically Safe Systems for Hazardous (classified) locations" and articles 500 to 510 of the National Electric Code ANSI / NFPA 70 for the U.S. and section 18 of the Canadian electrical code CSA 22.1 part 1 for Canada.
- 2) No revision to this drawing without prior agency approval.
- 3) If ambient temperature > 65°C, use heat-resistant cable certified for continuous operation above +80°C
- 4) To determine proper matching of I.S. equipment and the maximum cable length use the following entity parameter matching formulas:
 $U_o (V_{oc}) \leq U_i (V_{max})$
 $I_o (I_{oc}) \leq I_i (I_{max})$
 $P_o \leq P_i (P_{max})$
 $C_o (C_a) \geq \sum C_i + C_{cable}$
 $L_o (L_a) \geq \sum L_i + L_{cable}$
- 5) Control equipment connected to the associated apparatus must not use or generate more than 250 Vrms or Vdc.
- 6) Connect the earth terminal (internal or external) with a min. cable cross-section 4mm². The resistance between intrinsically safe ground and earth ground must be less than 1.0 Ω.
- 7) For class II, III, use a dust tight seal at the conduit entry. For zones 21 and 22, use a cable gland rated IP 6X at the housing cable entry.
- 8) Avoid electrostatic charge of the plastic sun cover, the hygienic antenna, the drop antenna, the flange plate protection, the extension protection and the slanted flange (e.g. do not install in a location where the electrostatic charge can increase, do not rub with dry cloth).
- 9) Temperature Classes as a function of ambient temperature and process temperature (or process connection temperature) - see tables

FOR FURTHER LIMITATIONS SEE INSTRUCTION MANUAL

REFLEX RB/RC			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	+60°C +44°C	+60°C +85°C
T5	T100°C	+75°C +59°C	+75°C +100°C
T4	T130°C	+57°C +48°C	+115°C +130°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C -33°C	-40°C -50°C

REFLEX RE			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	+60°C +54°C	+60°C +85°C
T5	T100°C	+75°C +69°C	+75°C +100°C
T4	T135°C	+72°C +68°C	+115°C +130°C
T3	T200°C	+64°C +58°C +54°C	+150°C +180°C +200°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C -37°C	-40°C -50°C

The gasket and antenna material temperatures must be in the approved limits. For more data, refer to the handbook.

Functional Ratings:

$V_{nom.} = 12-30 \text{ V}$; $I_{nom.} = 4-20 \text{ mA}$ or $3.8-20.5 \text{ mA}$, error 3.5 mA or 21.5 mA
These ratings do not supersede hazardous locations values.

WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY
AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

Rev	Mod	Nom	Cont	Norm	Homol.
	EMS-009638				
Engineer				General Tolerances	
Prod	A.THOLLET		12/17/2018	Edge of parts	
Cont	V.PICHOT		12/17/2018	Surface condition	
Norm				Material	
Homol.	A.THOLLET		12/17/2018		
				Sensible Ex	
				Ech	
				Folio 1/1	
				CONTROL DRAWING	
				REFLEX RB/RC/RE IS/Ex ia/AEx ia	
				Code d'article	
				Doc. type Doc. key Rev	
				APPR 4007326301 -	
				Status released	

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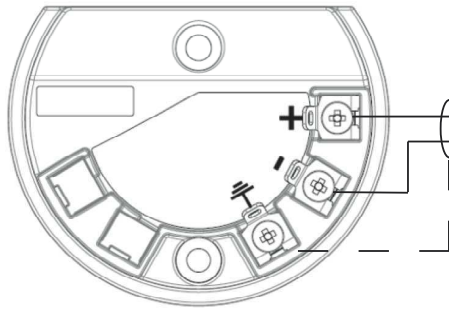
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L'échelle peut différer du dessin original (ISO 5455)

HAZARDOUS (CLASSIFIED) LOCATION

Class I/II/III, Div 1, GPS ABCDEFG
Class I, Zone 0, IIC
Zone 20, IIIC

Entity Parameters:
 $U_i (V_{max}) = 30 V$
 $I_i (I_{max}) = 130 mA$
 $P_i (P_{max}) = 1.0 W$
 $C_i = 10 nF$
 $L_i = 0 \mu H$



NON HAZARDOUS (UNCLASSIFIED) LOCATION

Approved Associated Apparatus with Entity Parameters (see Note 4)

CONNECTIONS FOR ENTITY CONCEPT OF 2 WIRES / 4...20 mA HART VERSION

Notes:

- Installation shall be in accordance with ANSI / ISA-RP 12.06.01, "Installation of Intrinsically Safe Systems for Hazardous (classified) locations" and articles 500 to 510 of the National Electric Code ANSI / NFPA 70 for the U.S. and section 18 of the Canadian electrical code CSA 22.1 part 1 for Canada.
- No revision to this drawing without prior agency approval.
- If ambient temperature > 65°C, use heat-resistant cable certified for continuous operation above +80°C
- To determine proper matching of I.S. equipment and the maximum cable length use the following entity parameter matching formulas:
 $U_o (V_{oc}) \leq U_i (V_{max})$
 $I_c (I_{cc}) \leq I_i (I_{max})$
 $P_o \leq P_i (P_{max})$
 $C_o (C_a) \geq \Sigma C_i + C_{cable}$
 $L_o (L_a) \geq \Sigma L_i + L_{cable}$
- Control equipment connected to the associated apparatus must not use or generate more than 250 Vrms or Vdc.
- Connect the earth terminal (internal or external) with a min. cable cross-section 4mm². The resistance between intrinsically safe ground and earth ground must be less than 1.0 Ω.
- For class II, III, use a dust tight seal at the conduit entry. For zones 21 and 22, use a cable gland rated IP 6X at the housing cable entry.
- Avoid electrostatic charge of the plastic sun cover, the lens antenna, the flange plate protection and the slanted flange (e.g. do not install in a location where the electrostatic charge can increase, do not rub with dry cloth).
- Temperature Classes as a function of ambient temperature and process temperature (or process connection temperature) - see tables

FOR FURTHER LIMITATIONS SEE INSTRUCTION MANUAL

REFLEX RA			
REFLEX RD/RF without distance piece			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	+60°C +48°C	+60°C +85°C
T5	T100°C	+75°C +63°C	+75°C +100°C
T4	T130°C	+64°C +55°C	+115°C +135°C
T3	T150°C	+49°C	+150°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C -35°C	-40°C -50°C ¹⁾

¹⁾ REFLEX RA is rated -40°C

REFLEX RD/RF with distance piece			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	60°C 53°C	60°C 85°C
T5	T100°C	75°C 68°C	75°C 100°C
T4	T135°C	70°C 65°C	115°C 135°C
T3	T200°C	61°C 53°C 48°C	150°C 180°C 200°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C	-40°C

The gasket temperatures must be in the approved limits. For more data, refer to the handbook.

Functional Ratings:

$V_{nom} = 12-30 V$; $I_{HART} = 4-20 mA$ or 3.8-20.5mA, error 3.5 mA or 21.5 mA
These ratings do not supersede hazardous locations values.

WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY
AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

Rev	Mod	Nom	Cont	Norm	Homol.
		EMS-009638			
Engineer				General Tolerances	
Prod	A.THOLLET	12/17/2018	Edge of parts		Sensible Ex
Cont	V.PICHOT	12/17/2018	Surface condition		
Norm				Material	
Homol.	A.THOLLET	12/17/2018			Ech
					Folio 1/1
			CONTROL DRAWING REFLEX RA/RD/RF IS/Ex ia/AEx ia		Code d'article Doc. type Doc. key Rev APPR 4007326501 - Status released

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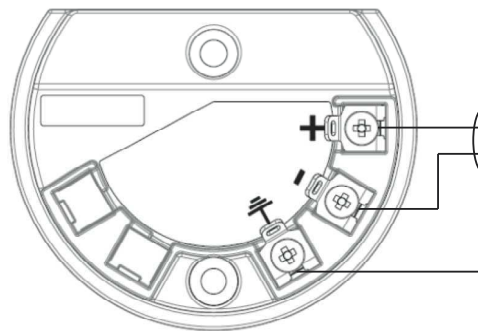
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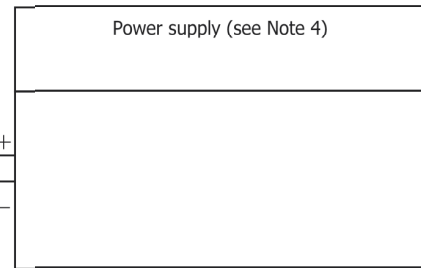
L'échelle peut différer du dessin original (ISO 5455)

HAZARDOUS (CLASSIFIED) LOCATION

Class I/II/III, Div 1, GPS ABCDEFG
 Class I, Zone 1, IIC
 Zone 21, IIIC
 Antenna suitable for zone 0 and zone 20



NON HAZARDOUS (UNCLASSIFIED) LOCATION



CONNECTIONS OF 2 WIRES / 4...20 mA HART VERSION

Notes:

- 1) Installation shall be in accordance with articles 500 to 510 of the National Electric Code ANSI / NFPA 70 for the U.S. and section 18 of the Canadian electrical code CSA 22.1 part 1 for Canada.
- 2) No revision to this drawing without prior agency approval.
- 3) If ambient temperature > 65°C, use heat-resistant cable certified for continuous operation above +80°C
- 4) Power supply must not use or generate more than 250 Vrms or Vdc.
- 5) Cable entry must be sealed within 18" conduit of enclosure (divisions) or at the enclosure (zones).
- 6) Connect the earth terminal (internal or external) with a min. cable cross-section 4mm². The resistance between intrinsically safe ground and earth ground must be less than 1.0 Ω.
- 7) For class II, III, use a dust tight seal at the conduit entry. For zones 21 and 22, use a cable gland rated IP 6X at the housing cable entry.
- 8) Avoid electrostatic charge of the plastic sun cover, the hygienic antenna, the drop antenna, the flange plate protection, the extension protection and the slanted flange (e.g. do not install in a location where the electrostatic charge can increase, do not rub with dry cloth).
- 9) Temperature Classes as a function of ambient temperature and process temperature (or process connection temperature) - see tables

**FOR FURTHER LIMITATIONS
 SEE INSTRUCTION MANUAL**

REFLEX RB/RC			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	+60°C +44°C	+60°C +85°C
T5	T100°C	+75°C +59°C	+75°C +100°C
T4	T130°C	+57°C +48°C	+115°C +130°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C -33°C	-40°C -50°C

REFLEX RE			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	+60°C +54°C	+60°C +85°C
T5	T100°C	+75°C +69°C	+75°C +100°C
T4	T135°C	+72°C +68°C	+115°C +130°C
T3	T200°C	+64°C +58°C +54°C	+150°C +180°C +200°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C -37°C	-40°C -50°C

The gasket and antenna material temperatures must be in the approved limits. For more data, refer to the handbook.

Functional Ratings:

V_{nom.} = 16-36 V; I_{nom.} = 4-20 mA or 3.8-20.5mA, error 3.5 mA or 21.5 mA
 These ratings do not supersede hazardous locations values.

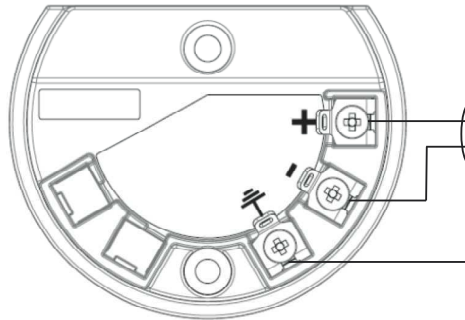
Rev	Mod	Nom	Cont	Norm	Homol.
	EMS-009638				
Engineer	General Tolerances				
Prod	A.THOLLET	12/17/2018	Edge of parts		
Cont	V.PICHOT	12/17/2018	Surface condition		
Norm			Material		
Homol.	A.THOLLET	12/17/2018		Ech	Folio 1/1
			CONTROL DRAWING		Code d'article
			REFLEX RB/RC/RE		Doc. type Doc. key Rev
			XP-IS/DIP/Ex db ia/Ex ia tb/ AEx db ia/AEx ia tb		APPR 4007326601 Status released

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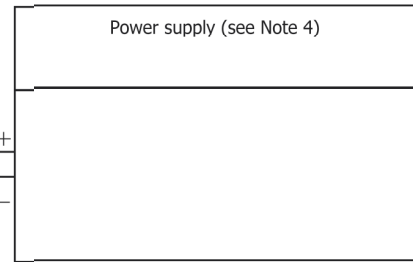
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HAZARDOUS (CLASSIFIED) LOCATION

Class I/II/III, Div 1, GPS ABCDEFG
 Class I, Zone 1, IIC
 Zone 21, IIIC
 Antenna suitable for zone 0 and zone 20



NON HAZARDOUS (UNCLASSIFIED) LOCATION



CONNECTIONS OF 2 WIRES / 4...20 mA HART VERSION

Notes:

- 1) Installation shall be in accordance with articles 500 to 510 of the National Electric Code ANSI / NFPA 70 for the U.S. and section 18 of the Canadian electrical code CSA 22.1 part 1 for Canada.
- 2) No revision to this drawing without prior agency approval.
- 3) If ambient temperature > 65°C, use heat-resistant cable certified for continuous operation above +80°C
- 4) Power supply must not use or generate more than 250 Vrms or Vdc.
- 5) Cable entry must be sealed within 18" conduit of enclosure (divisions) or at the enclosure (zones).
- 6) Connect the earth terminal (internal or external) with a min. cable cross-section 4mm². The resistance between intrinsically safe ground and earth ground must be less than 1.0 Ω.
- 7) For class II, III, use a dust tight seal at the conduit entry. For zones 21 and 22, use a cable gland rated IP 6X at the housing cable entry.
- 8) Avoid electrostatic charge of the plastic sun cover, the hygienic antenna, the drop antenna, the flange plate protection, the extension protection and the slanted flange (e.g. do not install in a location where the electrostatic charge can increase, do not rub with dry cloth).
- 9) Temperature Classes as a function of ambient temperature and process temperature (or process connection temperature) - see tables

**FOR FURTHER LIMITATIONS
 SEE INSTRUCTION MANUAL**

REFLEX RA			
REFLEX RD/RF without distance piece			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	+60°C +48°C	+60°C +85°C
T5	T100°C	+75°C +63°C	+75°C +100°C
T4	T130°C	+64°C +55°C	+115°C +135°C
T3	T150°C	+49°C	+150°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C -35°C	-40°C -50°C ¹⁾

¹⁾ REFLEX RA is rated -40°C



REFLEX RD/RF with distance piece			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	60°C 53°C	60°C 85°C
T5	T100°C	75°C 68°C	75°C 100°C
T4	T135°C	70°C 65°C	115°C 135°C
T3	T200°C	61°C 53°C 48°C	150°C 180°C 200°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C	-40°C

The gasket and antenna material temperatures must be in the approved limits. For more data, refer to the handbook.

Functional Ratings:

V_{nom.} = 16-36 V; I_{nom.} = 4-20 mA or 3,8-20,5mA, error 3,5 mA or 21,5 mA
 These ratings do not supersede hazardous locations values.

Rev	Mod	Nom	Cont	Norm	Homol.	
	EMS-009638					
Engineer	General Tolerances			 Sensible Ex		
Prod	A.THOLLET	12/17/2018	Edge of parts			
Cont	V.PICHOT	12/17/2018	Surface condition			
Norm			Material			
Homol.	A.THOLLET	12/17/2018		Ech	Folio 1/1	
		CONTROL DRAWING REFLEX RA/RD/RF XP-IS/DIP/Ex db ia/Ex ia tb/ AEx db ia/AEx ia tb			Code d'article Doc. type Doc. key Rev APPR 4007326701 - Status released	

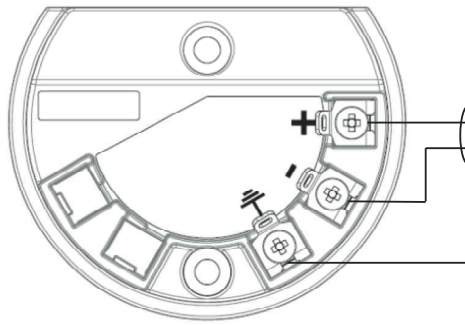
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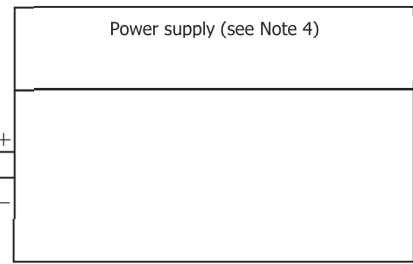
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HAZARDOUS (CLASSIFIED) LOCATION

Class I/II/III, Div 2, GPS ABCDFG



NON HAZARDOUS (UNCLASSIFIED) LOCATION



CONNECTIONS FOR NON INCENDIVE CONCEPT OF 2 WIRES / 4...20 mA HART VERSION

Notes:

- 1) Installation shall be in accordance with articles 500 to 510 of the National Electric Code ANSI / NFPA 70 for the U.S. and section 18 of the Canadian electrical code CSA 22.1 part 1 for Canada.
- 2) No revision to this drawing without prior agency approval.
- 3) If ambient temperature > 65°C, use heat-resistant cable certified for continuous operation above +80°C
- 4) Intrinsic safety barrier not required. See functional ratings.
- 5) Connect the earth terminal (internal or external) with a min. cable cross-section 4mm². The resistance between intrinsically safe ground and earth ground must be less than 1.0 Ω.
- 6) For class II, III, use a dust tight seal at the conduit entry.
- 7) Avoid electrostatic charge of the plastic sun cover, the hygienic antenna, the drop antenna, the flange plate protection, the extension protection and the slanted flange (e.g. do not install in a location where the electrostatic charge can increase, do not rub with dry cloth).
- 8) Temperature Classes as a function of ambient temperature and process temperature (or process connection temperature) - see tables

Functional Ratings:

V_{nom.} = 12-30 V; I_{nom.} = 4-20 mA or 3.8-20.5mA, error 3.5 mA or 21.5 mA

FOR FURTHER LIMITATIONS SEE INSTRUCTION MANUAL

REFLEX RB/RC			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	+60°C +44°C	+60°C +85°C
T5	T100°C	+75°C +59°C	+75°C +100°C
T4	T130°C	+57°C +48°C	+115°C +130°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C	-40°C
		-33°C	-50°C

REFLEX RE			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	+60°C +54°C	+60°C +85°C
T5	T100°C	+75°C +69°C	+75°C +100°C
T4	T135°C	+72°C +68°C	+115°C +130°C
T3	T200°C	+64°C +58°C +54°C	+150°C +180°C +200°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C	-40°C
		-37°C	-50°C

The gasket and antenna material temperatures must be in the approved limits. For more data, refer to the handbook.

WARNING: EXPLOSIVE HAZARD. DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR AREA IS KNOWN TO BE NON-HAZARDOUS. SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR USE IN DIV. 2
AVERTISSEMENT: RISQUE D'EXPLOSION. AVANT DE DEBRANCHER L'EQUIPEMENT COUPEZ LE COURANT OU ASSUREZ-VOUS QUE L'EMPLACEMENT EST NON DANGEREUX. LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIEL INACCEPTABLE POUR LA DIV 2

Rev	Mod	Nom	Cont	Norm	Homol.
	EMS-009638				
Engineer	General Tolerances			Sensible Ex	
Prod	A.THOLLET	12/17/2018	Edge of parts		
Cont	V.PICHOT	12/17/2018	Surface condition		
Norm	Material			Ech	
Homol.	A.THOLLET	12/17/2018		Folio	1/1
			CONTROL DRAWING REFLEX RB/RC/RE NON INCENDIVE		Code d'article Doc. type Doc. key Rev APPR 4007326801 - Status released

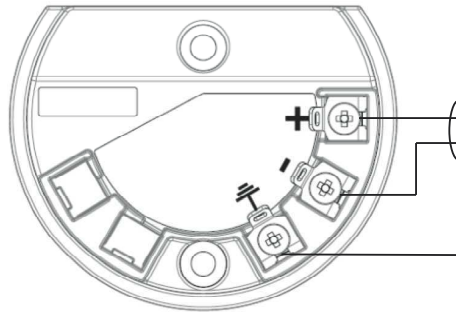
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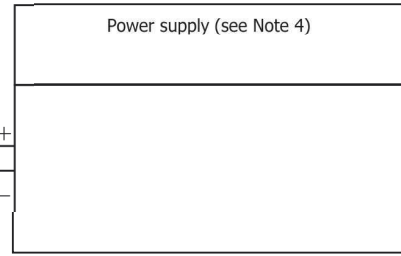
HAZARDOUS (CLASSIFIED) LOCATION

Class I/II/III, Div 2, GPS ABCDFG



NON HAZARDOUS (UNCLASSIFIED) LOCATION

Power supply (see Note 4)



CONNECTIONS FOR NON INCENDIVE CONCEPT OF 2 WIRES / 4...20 mA HART VERSION

Notes:

- 1) Installation shall be in accordance with articles 500 to 510 of the National Electric Code ANSI / NFPA 70 for the U.S. and section 18 of the Canadian electrical code CSA 22.1 part 1 for Canada.
- 2) No revision to this drawing without prior agency approval.
- 3) If ambient temperature > 65°C, use heat-resistant cable certified for continuous operation above +80°C
- 4) Intrinsic safety barrier not required. See functional ratings.
- 5) Connect the earth terminal (internal or external) with a min. cable cross-section 4mm². The resistance between intrinsically safe ground and earth ground must be less than 1.0 Ω.
- 6) For class II, III, use a dust tight seal at the conduit entry.
- 7) Avoid electrostatic charge of the plastic sun cover, the lens antenna, the flange plate protection and the slanted flange (e.g. do not install in a location where the electrostatic charge can increase, do not rub with dry cloth).
- 8) Temperature Classes as a function of ambient temperature and process temperature (or process connection temperature) - see tables

Functional Ratings:

V_{nom.} = 12-30 V; I_{nom.} = 4-20 mA or 3.8-20.5mA, error 3.5 mA or 21.5 mA

FOR FURTHER LIMITATIONS SEE INSTRUCTION MANUAL

REFLEX RA REFLEX RD/RF without distance piece			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	+60°C +48°C	+60°C +85°C
T5	T100°C	+75°C +63°C	+75°C +100°C
T4	T130°C	+64°C +55°C	+115°C +135°C
T3	T150°C	+49°C	+150°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C -35°C	-40°C -50°C ¹⁾

¹⁾ REFLEX RA is rated -40°C

REFLEX RD/RF with distance piece			
Temperature class	Max. surface temperature	Max. ambient temperature	Max. process temperature
T6	T85°C	60°C 53°C	60°C 85°C
T5	T100°C	75°C 68°C	75°C 100°C
T4	T135°C	70°C 65°C	115°C 135°C
T3	T200°C	61°C 53°C 48°C	150°C 180°C 200°C

Temperature class	Max. surface temperature	Min. ambient temperature	Min. process temperature
All classes	All surface temperatures	-40°C	-40°C

The gasket and antenna material temperatures must be in the approved limits. For more data, refer to the handbook.

WARNING: EXPLOSIVE HAZARD. DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR AREA IS KNOWN TO BE NON-HAZARDOUS. SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR USE IN DIV. 2
AVERTISSEMENT: RISQUE D'EXPLOSION. AVANT DE DEBRANCHER L'EQUIPEMENT COUPEZ LE COURANT OU ASSUREZ-VOUS QUE L'EMPLACEMENT EST NON DANGEREUX. LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIEL INACCEPTABLE POUR LA DIV 2

Rev	Mod	Nom	Cont	Norm	Homol.
	EMS-009638				
Engineer	General Tolerances			Sensible Ex	
Prod	A.THOLLET	12/17/2018	Edge of parts		
Cont	V.PICHOT	12/17/2018	Surface condition		
Norm	Material				
Homol.	A.THOLLET	12/17/2018	Ech		Folio 1/1
			CONTROL DRAWING REFLEX RA/RD/RF NON INCENDIVE		Code d'article Doc. type Doc. key Rev APPR 4007326901 - Status released

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