

DO NOT SCALE DRAWING

TOLERANCES (UNLESS NOTED)	DRAWN	C. Whan	1/06
DECIMALS = $\frac{\text{inch}}{\text{mm}}$	CHECKED	CAM	1/06
X = ± 0.1 / 2.54			
.XX = ± 0.01 / 0.25			
.XXX = ± 0.005 / 0.125			
HOLES = ± 0.009 / 0.080	SCALE	NONE	1/06
ANGLES = $\pm 1/12^\circ$			

CATEGORY CONTROL DRAWING

TITLE
RMA100/RMA100C
I.S. INSTALLATION
DIAGRAM, ATEX

DRAWING NUMBER
RMA100-001

REVISION SHEET 1 OF 3

REVISION
B

REVISED BY

ECO 15591

DATE

10/09

BY

CW

APPROVAL

CR

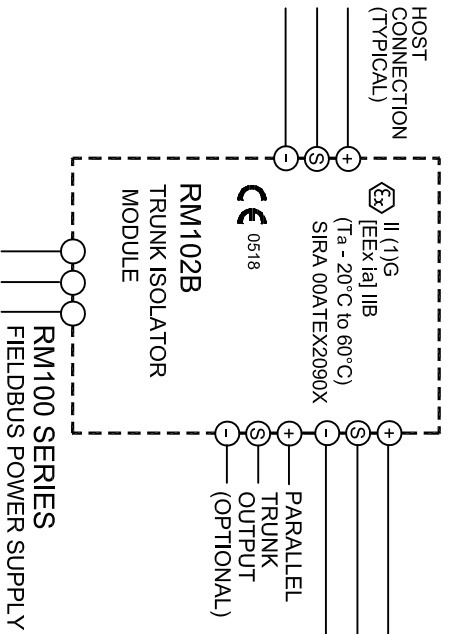
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NON-HAZARDOUS AREA

HAZARDOUS AREA

ZONES 0, 1 and 2
 GAS GROUP IIA/IB

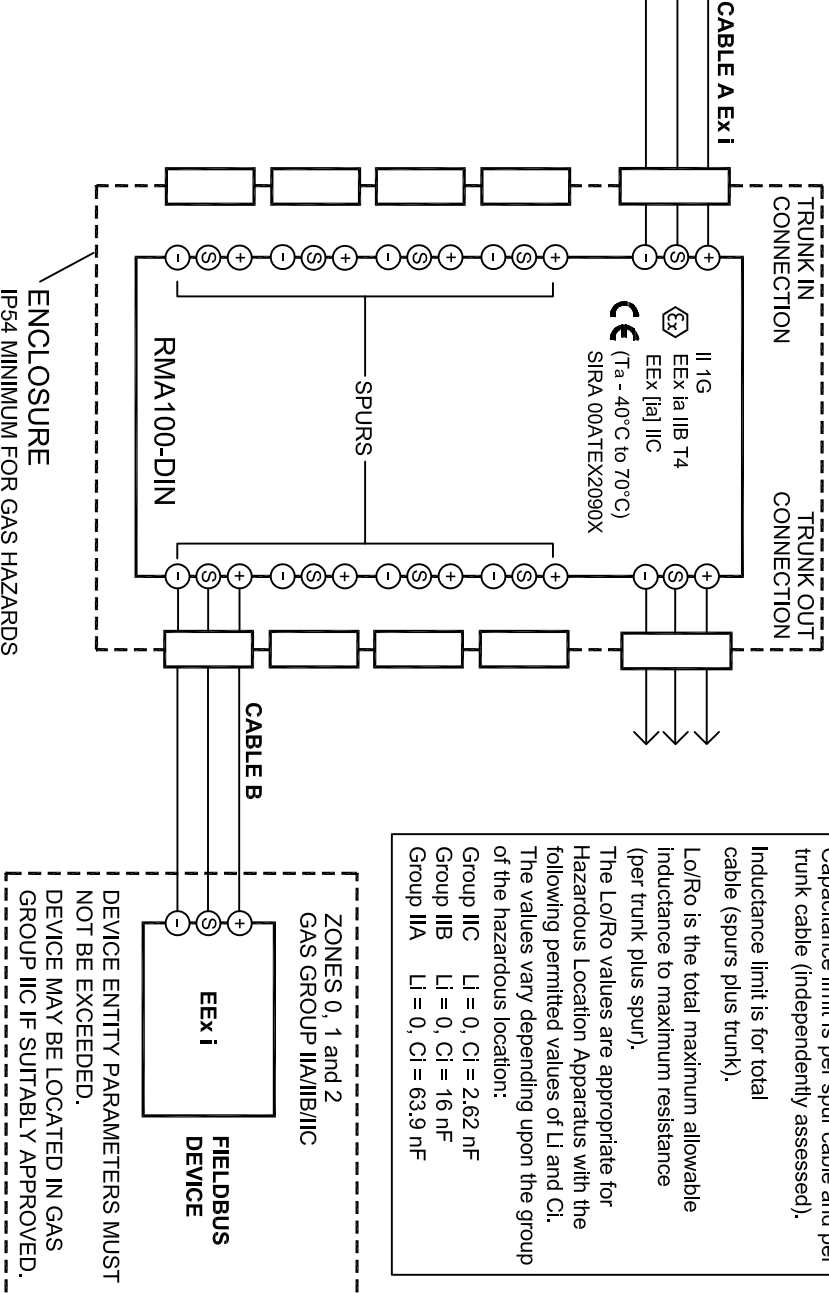
WHERE ENGLISH IS NOT A LANGUAGE OF THE COUNTRY IN WHICH THE EQUIPMENT IS BEING USED, PLEASE APPLY TO MooreHawke FOR A SUITABLE TRANSLATION.



RMA100-DIN TRUNK CONNECTIONS

Uo = 18.9V
 Io = 830.04mA
 Po = 3.93W
 Co = 1.6uF (IIB) 6.39uF (IIA)
 Lo = 0.206mH (IIB) 0.412mH (IIA)

RMA100-DIN



EEx Ia IIC SPUR CONNECTIONS (ENTITY)

Uo = 18.9V
 Io = 249.9mA
 Po = 1.181W
 Co = 262nF (IIC) 1.6uF (IIB) 6.39uF (IIA)
 Lo = 0.150mH (IIC) 0.206mH (IIB) 0.412mH (IIA)
 Lo/Ro = 30uH/ohm (IIC) 36uH/ohm (IIB) 72uH/ohm (IIA)

Capacitance limit is per spur cable and per trunk cable (independently assessed).
 Inductance limit is for total cable (spurs plus trunk).
 Lo/Ro is the total maximum allowable inductance to maximum resistance (per trunk plus spur).
 The Lo/Ro values are appropriate for Hazardous Location Apparatus with the following permitted values of LI and CI. The values vary depending upon the group of the hazardous location:
 Group IIC LI = 0, CI = 2.62 nF
 Group IIB LI = 0, CI = 16 nF
 Group IIA LI = 0, CI = 63.9 nF

DEVICE ENTITY PARAMETERS MUST NOT BE EXCEEDED.
 DEVICE MAY BE LOCATED IN GAS GROUP IIC IF SUITABLY APPROVED.

Certified Product

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DO NOT SCALE DRAWING

TOLERANCES (UNLESS NOTED)	DRAWN	C. Whan	1/06
DECIMALS = $\frac{\text{inch}}{\text{mm}}$	CHECKED	See Sht.1	
X = ± 0.1 / 2.54		See Sht.1	
XX = ± 0.01 / 0.25			
XXX = ± 0.005 / 0.125	SCALE	NONE	
HOLES = ± 0.009 / 0.080			
ANGLES = $\pm 1/2^\circ$			

CATEGORY CONTROL DRAWING

TITLE

RMA100/RMA100C

I.S. INSTALLATION

DIAGRAM, ATEX

DRAWING NUMBER RMA100-001 SHEET 2 OF 3

REVISION B

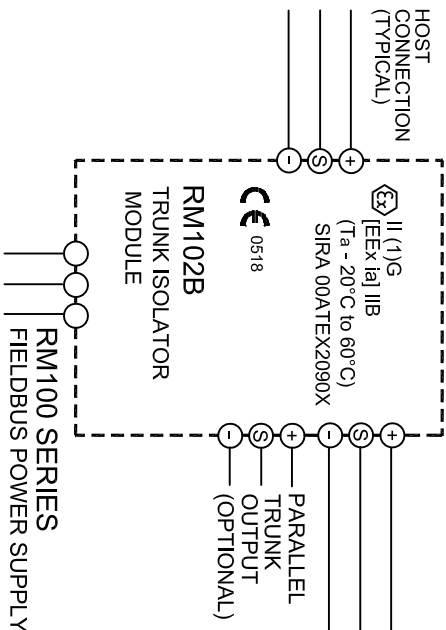
REVISED BY SEE SHEET 1 DATE BY APPROVAL

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NON-HAZARDOUS AREA

INSTALLATION MAY ONLY BE CARRIED OUT BY SUITABLY TRAINED PERSONNEL AND IN ACCORDANCE WITH NATIONAL WIRING REGULATIONS OR CODES OF PRACTICE. USER REPAIR OF RMA100C UNIT IS NOT POSSIBLE.

WHERE ENGLISH IS NOT A LANGUAGE OF THE COUNTRY IN WHICH THE EQUIPMENT IS BEING USED, PLEASE APPLY TO MooreHawke FOR A SUITABLE TRANSLATION.



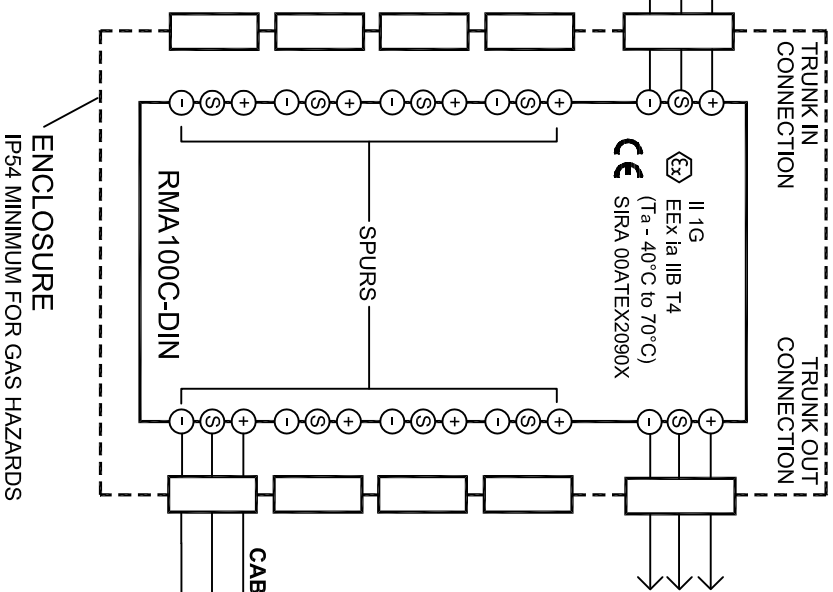
HAZARDOUS AREA

ZONES 0, 1 and 2
GAS GROUP IIA/IIB

EEx ia IIB TRUNK CONNECTIONS
 $U_0 = 18.9V$
 $I_0 = 830.04mA$
 $P_0 = 3.93W$
 $C_0 = 1.6\mu F$ (IIB) 6.39 μF (IIA)
 $L_0 = 0.206mH$ (IIB) 0.412mH (IIA)

RMA100C-DIN

EEx ia IIB TRUNK CONNECTIONS



EEx ia IIC SPUR CONNECTIONS (ENTITY)
 $U_0 = 17.5V$
 $I_0 = 249.9mA$
 $P_0 = 1.18W$
 $C_0 = 262nF$ (IIC) 1.6 μF (IIB) 6.39 μF (IIA)
 $L_0 = 0.150mH$ (IIC) 0.206mH (IIB) 0.412mH (IIA)
 $Lo/Ro = 30uH/ohm$ (IIC) 36uH/ohm (IIB)
 $72uH/ohm$ (IIA)

Capacitance limit is per spur cable and per trunk cable (independently assessed). Inductance limit is for total cable (spurs plus trunk).
 Lo/Ro is the total maximum allowable inductance to maximum resistance (per trunk plus spur).
 The Lo/Ro values are appropriate for Hazardous Location Apparatus with the following permitted values of L_i and C_i . The values vary depending upon the group of the hazardous location:
 Group IIC $L_i = 0, C_i = 2.62 nF$
 Group IIB $L_i = 0, C_i = 16 nF$
 Group IIA $L_i = 0, C_i = 63.9 nF$

ZONES 0, 1 and 2
GAS GROUP IIA/IIB/IIC
FIELDBUS DEVICE
EEx i
DEVICE ENTITY PARAMETERS MUST NOT BE EXCEEDED.
DEVICE MAY BE LOCATED IN GAS GROUP IIC IF SUITABLY APPROVED.

Certified Product
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Cable Parameters (FISCO Application)

The combination of an RM100-series rack (Sira 00ATEX2090X) together with an RMA100C Device Coupler is suitable for use in a FISCO system in accordance with EN 60079-27:2006. For FISCO installations, the cable from the Trunk Isolator Module to the Device Coupler is "Cable A". The cable from the RMA100C Device Coupler to the downstream field device(s) is "Cable B". "Cable B" shall comply with the following parameters: a) Loop resistance (Rc): 15 W/km to 150 W/km; b) Loop inductance (Lc): 0.4 mH/km to 1 mH/km; c) Capacitance (Cc): 45nF/km to 200 nF/km.



DO NOT SCALE DRAWING

TOLERANCES (UNLESS NOTED)	DRAWN	C. Whan	1/06
	CHECKED	See Sht.1	
	HOLES	See Sht.1	
	ANGLES	NONE	

CATEGORY
CONTROL DRAWING

RMA100/RMA100C I.S. INSTALLATION DIAGRAM, ATEX

DRAWING NUMBER

RMA100-001 SHEET 3 OF 3

REVISION
B

REVISED BY

SEE SHEET 1

DATE

BY

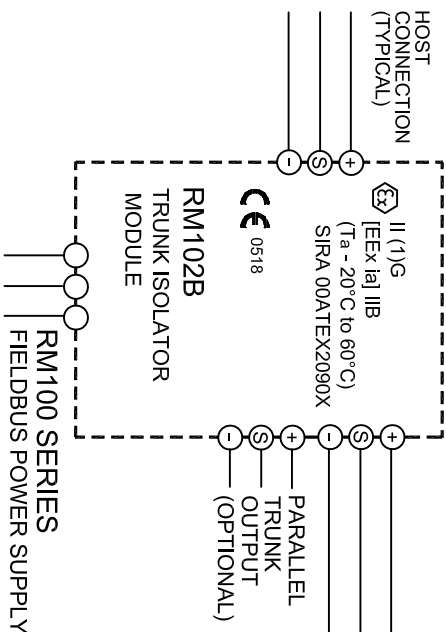
APPROVAL

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NON-HAZARDOUS AREA

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Certified Product

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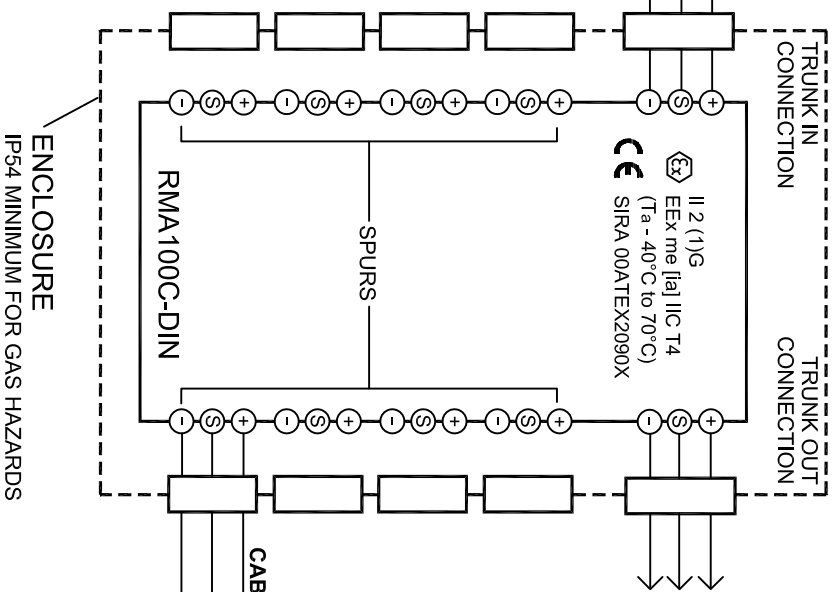
HAZARDOUS AREA

ZONES 1 and 2
GAS GROUP IIC

EEx e IIC TRUNK CONNECTIONS: 18.9V

RMA100C-DIN

EEx e IIC TRUNK CONNECTIONS



EEx ia IIC SPUR CONNECTIONS (ENTITY)
 $U_0 = 17.5V$
 $I_0 = 249.9mA$
 $P_0 = 1.18W$
 $C_0 = 262nF$ (IIC) 1.6uF (IIB) 6.39uF (IIA)
 $L_0 = 0.150mH$ (IIC) 0.206mH (IIB) 0.412mH (IIA)
 $Lo/R_0 = 30uH/ohm$ (IIC) 36uH/ohm (IIB) 72uH/ohm (IIA)

Capacitance limit is per spur cable and per trunk cable (independently assessed).
 Inductance limit is for total cable (spurs plus trunk).
 Lo/R_0 is the total maximum allowable inductance to maximum resistance (per trunk plus spur).
 The Lo/R_0 values are appropriate for Hazardous Location Apparatus with the following permitted values of LI and CI. The values vary depending upon the group of the hazardous location:
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 Group IIB LI = 0, CI = 16 nF
 Group IIA LI = 0, CI = 63.9 nF

ZONES 0, 1 and 2
GAS GROUP IIC

FIELD BUS DEVICE

EEx i

DEVICE ENTITY PARAMETERS MUST NOT BE EXCEEDED.
 DEVICE MAY BE LOCATED IN ZONE 0 IF SUITABLY APPROVED.