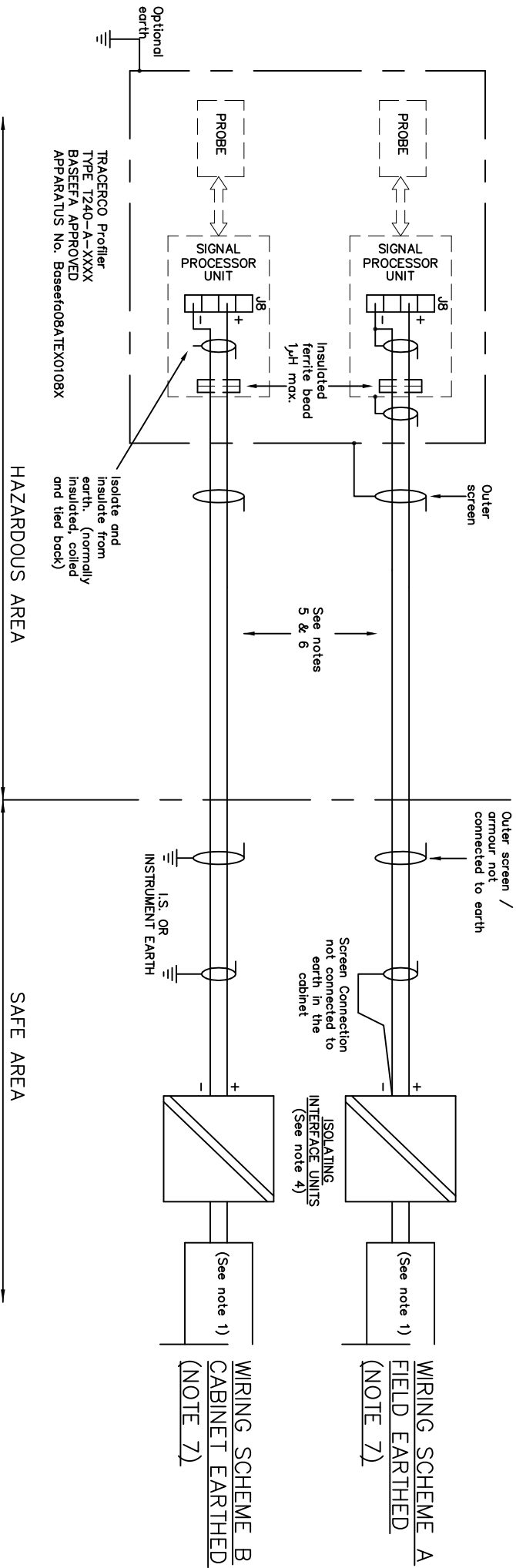


DIMENSIONS IN mm UNLESS OTHERWISE STATED



NOTES

- Apparatus which is unspecified except that it must not be supplied from nor contain in normal or abnormal conditions a source of potential with respect to earth in excess of 253V r.m.s. or 253V d.c.
- The installation must comply with National requirements (e.g. in the UK to BS EN 60079-14:2008 & BS EN 60079-25:2010)
- The system must be marked with a durable system label. The label should appear on or adjacent to the principle item of electrical apparatus of the system or at the interface between the intrinsically safe and non-intrinsically safe circuits.
- The barrier is any Isolating Interface barrier certified by any EU Notified Body to [Ex ib] IIB having the following combined safety description.

$U_0 \leq 17V$	$I_0 \leq 271mA$	$P_0 \leq 1152mW$
Entity Parameters for the Tracerco Profiler Type T240-A-1, A-2 and A-3 are as follows:		
$U_i = 17V$	$I_i = 271mA$	$P_i = 1.2 W$
$C_i = 0$	$L_i = 0$	
Entity Parameters for the Tracerco Profiler Type T240-A-4 are as follows:		
$U_i = 17V$	$I_i = 271mA$	$P_i = 1.2 W$
$C_i = 0$	$L_i = 1.5µH$	

- The Capacitance and either the Inductance OR Inductance to Resistance (L/R) Ratio of each cable must not exceed the values given in Table 1:

Table 1

GROUP	CAPACITANCE (µF)	INDUCTANCE (mH)	L/R RATIO (µH/ohm)
IIB	0.85	2.2	139
IIA	2.26	9.0	277

- Cable is two core with inner screen and outer screen / armour with overall insulation.
 - 2 probes and signal processors are shown, the application of only 1 probe and signal processor is permitted in a system.
- Only one wiring scheme will be used in a single installation. Wiring scheme A or B will be selected.

Related Drawing
No modifications permitted
without approval from
Notified Body

TRACERCO
PO BOX 1
BELASIS HALL TECHNOLOGY PARK
BILLINGHAM
CLEVELAND TS23 1LB

TRACERCO PROFILER
TYPE T240-A-XXXX
SYSTEM DIAGRAM FOR HAZARDOUS AREAS

TITLE

DRAWN BY

CHECKED BY

DATE

PAPER SIZE A3

SCALE

REV. A

ORIGINAL

BRIEF REVISION DESCRIPTION

REV. A

DD34637

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REV. A