



DO NOT SCALE DRAWING

TOLERANCES (UNLESS NOTED)
 DECIMALS = ±inch/mm
 .X = ±.1 /2.54
 .XX = ±.03 /0.76
 .XXX = ±.010/0.25
 HOLES: ±.003-.002/+.08-.05
 ANGLES: = ± 30°

DRAWN	Gus H. Elias	10/00
CHECKED	W.Ho	10/00
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SCALE	NONE	

CONTROL DRAWING

TITLE
Field Installation Diagram:
ATEX: SDY-ISE & TDY-ISE
Intrinsically Safe System
For Hazardous Areas

DRAWING NUMBER
100-100-59

REVISION
B

REVISED BY	DATE	BY	APPROVAL
ECO 13168	10/00	G.E.	CB

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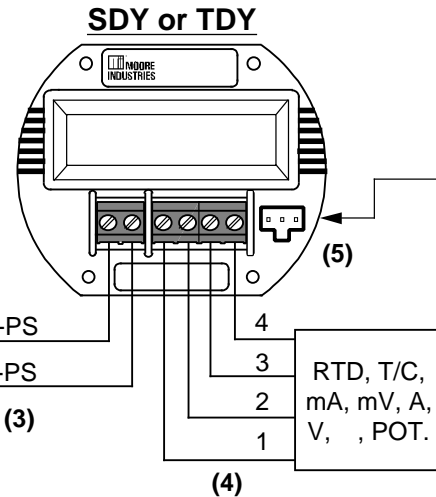
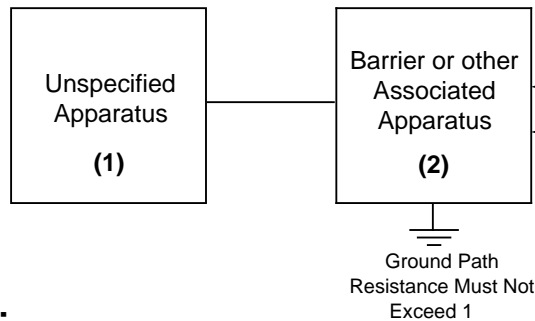
Hazardous Area

CERTIFIED PRODUCT
 This is a controlled 'Related' or 'Schedule' drawing. No modifications are permitted without the notification and final approval of the Q.A. Certification Engineer (related dwgs.) or the Certifying Agency (schedule dwgs.).

CENELEC/ATEX '94/9/EC' Classifications
Intrinsically Safe: Ex II 2G EEx ia IIC
 HSE-EECS/BASEEFA Cert. No.: BAS99ATEX2282X
 T Code: **T4 @ 60°C** Max. Operating Ambient Temp.
 Ambient Temperature Range: -40°C T_{amb.} +60°C

The 'COM' Port Must Not Be Used In Hazardous Areas

Non-Hazardous Safe Area



Manufacturer's Declaration: MII declares that Models SDY/TDY Hockey-Puck style apparatus are designed and manufactured so as to:
 a) not give rise to physical injury or other harm due to contact; b) not to produce excessive surface temperature, infra-red, electro-magnetic, ionizing radiation and; c) have no non-electrical dangers.
Warning: Substitution of components may impair the Intrinsic Safety of the unit. DO NOT open the unit when either energized or when an explosive gas/dust atmosphere is present. Disconnect power before servicing. Also read, understand and adhere to the manufacturer's installation and operating procedures.

Model **SDY**: PC-Programmable Signal Isolator/Converter with Display.
 Model **TDY**: PC-Programmable Temperature Transmitter with Display.

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 250 Volts R.M.S. or 250 Volts DC.
- Any Single Channel Shunt Zener Diode Safety Barrier or any Single Channel of a Dual Channel Shunt Barrier certified by BASEEFA or any EEC Approved Body to [EEx ia] IIC having the following output parameters: **U_o = 28 VDC, I_o = 100 mA, P_o = 0.66 Watts**. In any safety barrier used, the output current must be limited by a resistor "R" such that I_o = U_o/R.
- The Capacitance and either the Inductance OR the Inductance to Resistance ratio (L/R) of the cable connected to terminals +PS and -PS **must not** exceed the following values:

Group	Capacitance (µF)	Inductance (mH)	OR	L/R Ratio (µH/)
IIC	0.046	3.72		52
IIB	0.613	15.51		198
IIA	2.113	31.35		418
- The Capacitance and either the Inductance OR the Inductance to Resistance ratio (L/R) of the cable connected to terminals 1, 2, 3 and 4 **must not** exceed the following values:

Group	Capacitance (µF)	Inductance (mH)	OR	L/R Ratio (µH/)
IIC	2.00	2.97		101
IIB	480	12.59		387
IIA	980	25.23		817
- The terminals +PS, -PS, 1 through 4 are not protected to at least IP20. Models SDY & TDY hockey-puck style units must be housed in an enclosure meeting the requirements of Clauses 7.3.2 and 8 of EN 50014:1997 plus Amendments 1 and 2, and Clause 6.1 of EN 50020:1994.
- The installation must comply with the appropriate national installation requirements (e.g. in the UK to EN 60079-14:1997).
- The system must be marked with a durable label. The label should appear on or adjacent to the principal item of electrical apparatus in the system or at the interface between the Intrinsically Safe and non-Intrinsically Safe circuits. This marking shall include the word 'SYST' or 'SYSTEM' (e.g. "BAS SYSTEM No. Ex 99E2283" or "BAS No. Ex 99E2283 SYST").