

British Approvals Service for Electrical Equipment in Flammable Atmospheres





Certificate of Conformity

BAS No. Ex 98E2203

3 This certificate is issued for the intrinsically safe electrical system:

AN MTL8000 I/O SERIES SYSTEM WITH I.S. FIELD TERMINALS

4 Submitted for certification by:

MEASUREMENT TECHNOLOGY LTD of Power Court, Luton, Bedfordshire, LU1 3JJ

- 5 This electrical system and any acceptable variation thereto is specified in the Schedule to this Certificate and the documents therein referred to.
- 6 BASEEFA being an Approved Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18 December 1975 (76/117/EEC) certifies that the system has been found to comply with harmonised European Standards:

EN50 039: 1980

and has successfully met the examination and test requirements recorded in confidential Report number:

98(C)0333 dated 11 December 1998

7 The system is coded:

EEx ia IIC $(-40^{\circ}\text{C} \le \text{Ta} \le +70^{\circ}\text{C})$

8 It is the responsibility of the system certificate holder to supply the relevant documentation to the installer of the intrinsically safe electrical system referred to in this certificate.

The installer has the responsibility to ensure that the system conforms to the specification laid down in the Schedule to this certificate and has satisfied routine verifications and tests specified therein.

9 This system may be marked with the Distinctive Community Mark specified in Annex II to the Commission Directive of 16 January 1984 (Doc 84/47/EEC). A facsimile of this mark is printed on sheet 1 of this certificate.

File No: EECS 0703/02/259

Sheet 1 of 3



I M CLEARE DIRECTOR

11 December 1998



Registration Number 020
The use of the Accreditation is respect of linera activities covered by the accreditation is covered by the accreditation.

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the system may be used in particular industries or circumstances. A system is an assembly of apparatus (all of which are subject to certification and licensing requirements in their own right) and is therefore not listed on an EECS Manufacturing Licence.



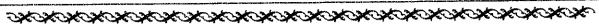
Electrical Equipment Certification Service

Health and Safety Executive Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom Tel: 01298 28000 Fax: 01298 28244









British Approvals Service for Electrical Equipment in Flammable Atmospheres



Schedule

Certificate of Conformity BAS No. Ex 98E2203

SYSTEM DESCRIPTION

An MTL8000 I/O Series System with I.S. Field Terminals comprising of:-

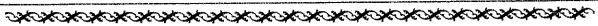
- 1. Apparatus located in the non-hazardous area (safe area).
 - 1.1 An MTL8000 I/O Node with I.S. Field Terminals to BASEEFA Certificate No. BAS98ATEX7202 and coded [EEx ia] IIC in an ambient temperature of -40°C to +70°C.
 - 1.2 Connections to the hazardous area are made via the following I/O modules and field terminals:
 - i) An 8215-DO-IS, 4-Channel IS DO, solenoid driver to Component Certificate No. BAS98ATEX7204U. Terminations will be made via either an 8621-FT-IS, IS field terminals or an 8622-FT-IS, IS field terminal, loop-disconnect to Component Certificate No. BAS98ATEX7211U.
 - ii) An 8204-AO-IS, 8-Channel IS AO, 4-20mA to Component Certificate No. BAS98ATEX7205U. Terminations will be made via either an 8621-FT-IS, IS field terminals or an 8622-FT-IS, IS field terminal, loop-disconnect to Component Certificate No. BAS98ATEX7211U.
 - iii) An 8220-DI-IS, 16-Channel IS DI, switch/proximity detector or 8220-DI-IS, 8-Channel IS DI, switch/proximity detector to Component Certificate No. BAS98ATEX7206U. Terminations will be made via an 8624-FT-IS, IS field terminal, 8-channel DI to Component Certificate No. BAS98ATEX7211U
 - iv) An 8201-HI-IS, 8-Channel IS AI, 4-20mA with HART to Component Certificate No. BAS98ATEX7207U. Terminations will be made via either an 8621-FT-IS, IS field terminals or an 8622-FT-IS, IS field terminal, loop-disconnect to Component Certificate No. BAS98ATEX7211U
 - 1.3 The MTL 8000 I/O Node with I.S. Field Terminals is to be supplied from 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 d.c.
- Apparatus which may be located in the Hazardous Area
 - 2.1 Devices i.e. switches, thermocouples, PRTs or resistors meeting the requirements of Clause 5.4 of EN50020: 1994. The PRTs and resistors must have a surface area of between 20mm² and 10cm². They must be provided with a degree of protection of at least IP20, be installed in accordance with the requirements of clause 6 of EN50 020: 1994 and must be capable of withstanding an a.c. test voltage of 500V r.m.s. to earth, or to the frame of the equipment, without breakdown. Such devices do not require to be certified or marked.













British Approvals Service for Electrical Equipment in Flammable Atmospheres



Schedule

Certificate of Conformity BAS No. Ex 98E2203

- 3. Permissible Interconnecting Cables.
 - 3.1 The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the hazardous area cables must not exceed the load parameter values detailed in the individual Component Certificates for each individual I/O module.
 - 3.2 Wiring to terminals of the appropriate I/O module may be achieved by separate cables or by separate circuits within a Type A or Type B multicore cable (as defined in clause 5.3 of EN50 039) subject to the following:
 - a. The circuit to be individually screened when used within a Type A multicore cable.
 - b. The peak voltage of any other circuit within a Type B multicore cable must not exceed 60V.

DRAWINGS

Number	Sheet	Issue	Date	Description
*SCI-784	1	3	12.98	Common Installation Drawing
*SCI-784	2	3	12,98	Common Installation Drawing
*SCI-784	3	· 3	12.98	Common Installation Drawing
SCI-784	4	3	12.98	System Information
SCI-785	1	3 .	12.98	8201 System
SCI-785	2	3	12.98	8201 System
SCI-786	1	3	12.98	8204 System
SCI-786	2	3	12.98	8204 System
SCI-787	1	3	12.98	8215 System
SCI-787	2	3	12.98	8215 System
SCI-788	1	3	12.98	8220 System
SCI-788	2	3	12.98	8220 System

Drawings marked * are held on BASEEFA Certificate No. BAS98ATEX7202

BASEEFA List Keywords

2ISOLBAR















Certificate of Conformity - Variation

SUPPLEMENTARY CERTIFICATE BAS No. Ex 98E2203/1

This is to certify that System Certificate number:

Ex 98E2203

held by:

MEASUREMENT TECHNOLOGY LTD

of:

Power Court, Luton, Bedfordshire, LU1 3JJ

for the:

MTL 8000 I/O SERIES SYSTEM WITH I.S. FIELD TERMINALS

is hereby extended to apply to the system designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

File No: EECS 0703/02/259

Sheet 1 of 2

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances. A system is an assembly of apparatus (all of which are subject to certification and licensing requirements in their own right) and is therefore not listed on an EECS Manufacturing Licence.









Electrical Equipment Certification Service

Health and Safety Executive Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom Tel: 01298 28000 Fax: 01298 28244















Schedule

Supplementary Certificate BAS No. Ex 98E2203/1

VARIATION ONE

To permit the apparatus listed in Item 1.2 iii) of the original schedule to be extended to include the option of an 8623-FT-IS, IS Field Terminal, 16 Channel DI introduced at Variation One BAS98ATEX7211U/1.

DRAWINGS

A CANADA CANADA

<u>Number</u>	Sheet	<u>Issue</u>	<u>Date</u>	<u>Description</u>
*SCI-784	1	4	6.99	Common Installation Drawing
*SCI-784	2	4	6.99	Common Installation Drawing
*SCI-784	3	4	6.99	Common Installation Drawing
SCI-784	4	4	6.99	System Information

^{*}These drawings are held on BASEEFA Certificate No BAS98ATEX7202/1













Certificate of Conformity - Variation

SUPPLEMENTARY CERTIFICATE BAS No. Ex 98E2203/2

This is to certify that System Certificate number:

Ex 98E2203

held by:

MEASUREMENT TECHNOLOGY LTD

of:

Power Court, Luton, Bedfordshire, LU1 3JJ

for the:

MTL 8000 I/O SERIES SYSTEM WITH LS. FIELD TERMINALS

is hereby extended to apply to the system designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

File No: EECS 0703/02/259

Sheet 1 of 2

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances. A system is an assembly of apparatus (all of which are subject to certification and licensing requirements in their own right) and is therefore not listed on an EECS Manufacturing Licence.



NATIONAL Accreditation Of Certification Bodies

Registration Number 020
The use of the Accorditation of those scireditation in respect of those scirelistic covered by the accreditation.



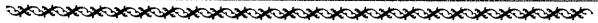
Electrical Equipment Certification Service

Health and Safety Executive Harpur Hill, Buxton, Derbyshire. SK179JN. United Kingdom Tel: 01298 28000 Fax: 01298 28244













Schedule

Supplementary Certificate BAS No. Ex 98E2203/2

VARIATION TWO

To permit the apparatus listed in Item 1.2 of the original schedule to be extended to include the option of alternative modules;

- (v) MTL8205-TI-IS, 8 Channel IS, Thermocouple Input, BASEEFA Component Certificate No BAS99ATEX7316U with the hazardous area terminations made by certified IS field terminals 8625-FT-IS Thermocouple Field Terminals, BASEEFA Component Certificate BAS98ATEX7211U/4.
- A CHARLES AND A (vi) MTL8206-TI-IS, 8 Channel IS, RTD Input, BASEEFA Component Certificate No BAS99ATEX7316U with the hazardous area terminations made by certified IS field terminals 8626-FT-IS RTD Field Terminals, BASEEFA Component Certificate No BAS98ATEX7211U/4.

DRAWINGS

Number	Sheet	<u>Issue</u>	<u>Date</u>	<u>Description</u>
*SCI-784	1	5	1/00	Common Installation Drawing
*SCI-784	2	5	1/00	Common Installation Drawing
*SCI-784	3	5	1/00	Common Installation Drawing
*SCI-784	4	5	1/00	Common Installation Drawing
SCI-784	5	5	1/00	System Information
SCI-853	1	1	12/99	8205 System
SCI-853	2	1	12/99	8205 System
SCI-854	1	1	12/99	8206 System
SCI-854	2	1	12/99	8206 System

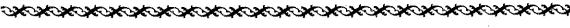
^{*}These drawings are held on BAS98ATEX7202/2













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British Approvals Service for Electrical Equipment in Flammable Atmospheres





Certificate of Conformity - Variation

SUPPLEMENTARY CERTIFICATE BAS No. Ex 98E2203/3

This is to certify that System Certificate number:

Ex 98E2203

held by:

MEASUREMENT TECHNOLOGY LIMITED

of:

Luton, Bedfordshire, LU1 3JJ

for the:

MTL8000 I/O SERIES SYSTEM WITH I.S. FIELD TERMINALS

is hereby extended to apply to the system designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

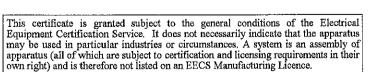
File No: EECS 0703/02/259

Sheet 1 of 2



I M CLEARE DIRECTOR

9 November 2000





Electrical Equipment Certification Service

Health and Safety Executive Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom Tel: 01298 28000 Fax: 01298 28244



Registration Number 020
The use of the Accreditation Mark indicates accreditation in respect of those activities extend by the accreditation





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Schedule

British Approvals Service for Electrical Equipment in Flammable Atmospheres

Supplementary Certificate BAS No. Ex 98E2203/3

VARIATION THREE

To permit drawing changes associated with changes to the MTL8000 I/O Node with Intrinsically Safe Field Terminals to BASEEFA Certificate No BAS98ATEX7202/3.

DRAWINGS

<u>Number</u>	<u>Sheet</u>	<u>Issue</u>	<u>Date</u>	Description
SCI-784	1 to 5	6	10.00	Common Installation Drawing

These drawings are held on BASEEFA Certificate No BAS98ATEX7202/3





Sheet 2 of 2







British Approvals Service for Electrical Equipment in Flammable Atmospheres





Certificate of Conformity - Variation

SUPPLEMENTARY CERTIFICATE BAS No. Ex 98E2203/4

This is to certify that System Certificate number:

Ex 98E2203

held by:

MEASUREMENT TECHNOLOGY LIMITED

of:

TO A CHOROLOGICA CONTRACTOR A C

Power Court, Luton, Bedfordshire, LU1 3JJ

for the:

MTL 8000 I/O SERIES SYSTEM WITH I.S. FIELD TERMINALS

is hereby extended to apply to the system designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

File No: EECS 0703/02/259

Sheet 1 of 2

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances. Representation of equipment as "Certified" is valid only when the number of the prime certificate to which this certificate is a supplement is given on the relevant EECS Manufacturing Licence or Verification Certificate.



I M CLEARE DIRECTOR

15 December 2000



Registration Number 020
The use of the accreditation Mark indicates accreditation in respect of those activities covered by the accreditation



Electrical Equipment Certification Service

Health and Safety Executive Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom Tel: 01298 28000 Fax: 01298 28244















Schedule

Supplementary Certificate BAS No. Ex 98E2203/4

VARIATION FOUR

To permit the apparatus listed in Item 1.2 of the original schedule to be extended to include the option of an alternative module:

(v) MTL8223-PI-IS, 2 Channel Pulse Input Module, BASEEFA Component Certificate No BAS00ATEX7202U with the hazardous area terminations made by certified IS field terminals 8621-FT-IS, IS Field Terminals or 8622-FT-IS, IS Field Terminals, Loop Disconnect, BASEEFA Component Certificate No BAS98ATEX7211U.

DRAWINGS

WORKEN STANDARD STAND

Number	Sheet	<u>Issue</u>	<u>Date</u>	Description
*SCI-784	1	7	11/00	Common Installation Drawing
*SCI-784	2	7	11/00	Common Installation Drawing
*SCI-784	3	7	11/00	Common Installation Drawing
*SCI-784	4	7	11/00	Common Installation Drawing
SCI-784	5	7	11/00	System Information
SCI-929	1-5	1	11/00	8223 System

^{*} These drawings are held on BAS98ATEX7202/4



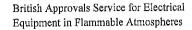


Sheet 2 of 2













Certificate of Conformity - Variation

SUPPLEMENTARY CERTIFICATE BAS No. Ex 98E2203/5

This is to certify that System Certificate number:

Ex 98E2203

held by:

MEASUREMENT TECHNOLOGY LIMITED

of

A CANANTANA A

Power Court, Luton, Bedfordshire, LU1 3JJ

for the:

MTL 8000 I/O SERIES SYSTEM WITH I.S. FIELD TERMINALS

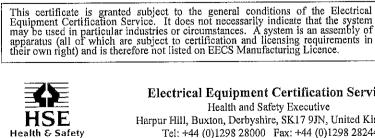
is hereby extended to apply to the system designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

File No: EECS 0703/02/259

Sheet 1 of 2

I M CLEARE DIRECTOR 17 September 2001



Executive

Electrical Equipment Certification Service

Health and Safety Executive Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom Tel: +44 (0)1298 28000 Fax: +44 (0)1298 28244 e-mail: baseefa.info.eecs@hsl.gov.uk internet: www.baseefa.com

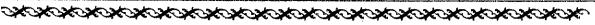
















Schedule

Supplementary Certificate BAS No. Ex 98E2203/5

VARIATION FIVE

To permit the apparatus listed in Item 1.2 of the original schedule to be extended to include the option of an alternative module;

(viii) MTL8202-HO-IS, 8 Channel IS AO, 4-20mA with HART Module, BASEEFA Component Certificate No BAS01ATEX7185U with the hazardous area terminations made by certified IS field terminals 8621-FT-IS, IS Field Terminals or 8622-FT-IS, IS Field Terminals, Loop Disconnect, BASEEFA Component Certificate No BAS98ATEX7211U.

DRAWINGS

Number	Sheet	<u>Issue</u>	<u>Date</u>	Description
*SCI-784	1	8	05/01	Common Installation Drawing
*SCI-784	2	8	05/01	Common Installation Drawing
*SCI-784	3	8	05/01	Common Installation Drawing
*SCI-784	4	8	05/01	Common Installation Drawing
*SCI-784	5	8	05/01	Common Installation Drawing
SCI-784	6	8	05/01	System Information
SCI-940	1-2	1	05/01	8202 System

^{*} These drawings are held on BAS98ATEX7202/6













Certificate of Conformity - Variation

SUPPLEMENTARY CERTIFICATE BAS No. Ex 98E2203/6

This is to certify that System Certificate number:

Ex 98E2203

held by:

MEASUREMENT TECHNOLOGY LIMITED

of

Luton, Bedfordshire, LU1 3JJ

for the:

MTL 8000 I/O SERIES SYSTEM WITH I.S. FIELD TERMINALS

is hereby extended to apply to the system designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

File No: EECS 0703/02/259

Sheet 1 of 2

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the system may be used in particular industries or circumstances. A system is an assembly of apparatus (all of which are subject to certification and licensing requirements in their own right) and is therefore not listed on EECS Manufacturing Licence.

I M CLEARE DIRECTOR 14 December 2001



Electrical Equipment Certification Service

Health and Safety Executive Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom Tel: +44 (0)1298 28000 Fax: +44 (0)1298 28244 internet: www.baseefa.com

e-mail: baseefa.info.eecs@hsl.gov.uk











British Approvals Service for Electrical Equipment in Flammable Atmospheres



Schedule

Supplementary Certificate BAS No. Ex 98E2203/6

VARIATION SIX

To permit the apparatus listed in Item 1.2 of the original schedule to be extended to include the option of an alternative module;

(ix) MTL8230-AI-IS, 8 Channel IS Analogue Input Module, BASEEFA Component Certificate No BAS01ATEX7346U with the hazardous area terminations made by certified IS field terminals 8623-FT-IS, IS Field Terminals BASEEFA Component Certificate No BAS98ATEX7211U.

DRAWINGS

Number	Sheet	<u>Issue</u>	<u>Date</u>	Description
*SCI-784	1	9	9.01	Common Installation Drawing
*SCI-784	2	9	9.01	Common Installation Drawing
*SCI-784	3	9	9.01	Common Installation Drawing
*SCI-784	4	9	9.01	Common Installation Drawing
*SCI-784	5	9	9.01	Common Installation Drawing
SCI-784	6	9	9.01	System Information
SCI-941	1-3	1	9.01	8230 System

^{*}These drawings are held on BAS98ATEX7202/7







Issued 13th November 2006 Page 1 of 2

Certificate of Conformity - Variation

This is to certify that System Certificate number:

Ex 98E2203

issued to:

Measurement Technology Limited

of:

Luton, Bedfordshire, LU1 3JJ

for the:

MTL8000 I/O Series System with IS Field Terminals

is hereby extended to apply to the system conforming with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate

The Electrical Equipment Certification Service, retains responsibility for its original documentation. Baseefa is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

This certificate may only be reproduced in its entirety, without any change, Schedule included.

Baseefa Customer Reference No. 0703

Project File No. 06/0947

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



Issued 13th November 2006 Page 2 of 2

Schedule

Description of the variation

Variation 7.1

To permit the system drawings to be updated, following the transfer of control of the extension cables from Certificate Number BAS98ATEX7210U to Certificate Number BAS98ATEX7202. The maximum number of I/O Modules is increased from 32 to 64 following the introduction of the MTL8729-CA-08 *-Module, 64-Address Carrier in BAS98ATEX7210U/2 and changes to the software. There are no other changes to the system.

Report No.

None

Drawings

Number	Sheet	Issue	Date	Description
*SCI-784	1 to 5	10	10.06	Common Installation Drawing
SCI-784	6	10	10.06	Common Installation Drawing

^{*} These drawings are common to and are held with Certificate Number BAS98ATEX7202/8

Special Conditions for Safe Use

None



Issued 26 August 2008 Page 1 of 2

Certificate of Conformity - Variation

This is to certify that System Certificate number:

Ex 98E2203/8

issued to:

GE Fanuc Intelligent Platforms

of:

Luton, Bedfordshire, LU2 8DL

for the:

8000 I/O Series System with IS Field Terminals

is hereby extended to apply to the system conforming with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate Ex 98E2203.

The Electrical Equipment Certification Service, retains responsibility for its original documentation. Baseefa is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

This certificate may only be reproduced in its entirety, without any change, Schedule included.

Baseefa Customer Reference No. 6198

Project File No. 08/0573

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

Deales
DBREARLES
PRSSINCLAIR

DIRECTOR On behalf of Baseefa



Issued 26 August 2008 Page 2 of 2

Schedule

Description of the variation

Variation 8.1

To permit minor changes to various drawings that do not affect the original assessment.

Report No.

None.

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Number	Sheet	Issue	Date	Description
SCI-784 #	1 to 6	11	6.08	8000 Series I/O Node with Intrinsically Safe Field Terminals Common Installation Drawing
SCI-785	1 to 2	4	7.08	Installation Drawing for the 8201-HI-IS 8-Channel Analogue Input Module, with HART
SCI-786	1 to 2	4	7.08	Installation Drawing for the 8204-AO-IS 8-Channel Analogue Output Module
SCI-787	1 to 2	4	7.08	Installation Drawing for the 8215-DO-IS 4-Channel Discrete Output Module, Solenoid Driver
SCI-788	1 to 2	4	7.08	Installation Drawing for the 8220-DI-IS Discrete Input, Switch/Proximity Detector I/O module
SCI-853	1 to 2	2	7.08	Installation Drawing for the 8205-TI-IS 8-Channel Temperature Input (Thermocouple) Module
SCI-854	1 to 2	2	7.08	Installation Drawing for the 8206-TI-IS 8-Channel Temperature Input (RTD) Module
SCI-929	I to 5	2	7.08	Installation Drawing for the 8223-PI-IS 2-Channel Pulse Frequency Input Module
SCI-940	1 to 2	2	7.08	Installation Drawing for the 8202-HO-IS 8-Channel Analogue Output Module, 4-20mA with HART
SCI-941	1 to 3	2	7.08	Installation Drawing for the 8230-AI-IS

sheets 1 to 5 of this drawing are common to and held with BAS98ATEX7202/9.

Special Conditions for Safe Use

None.



Issued 27 July 2010 Page 1 of 2

Certificate of Conformity - Variation

This is to certify that System Certificate number:

Ex 98E2203/9

issued to:

GE Intelligent Platforms

(formerly GE Fanuc Intelligent Platforms)

of:

2500 Austin Drive, Charlottesville, Virginia 22911,

USA

(formerly Luton, Bedfordshire, LU2 8DL)

for the:

8000 I/O Series System with IS Field Terminals

is hereby extended to apply to the system conforming with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate Ex 98E2203

The Electrical Equipment Certification Service, retains responsibility for its original documentation. Baseefa is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

This certificate may only be reproduced in its entirety, without any change, Schedule included.

Baseefa Customer Reference No. 6623

Project File No. 10/0571

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

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Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.

DIRECTOR On behalf of Baseefa



Issued 27 July 2010 Page 2 of 2

Schedule

Description of the variation

Variation 9.1

To permit minor drawing changes not affecting the original assessment.

Report No.

None.

Drawings

J				
Number	Sheet	Issue	Date	Description .
SC1-784*	1 to 6	12	2.10	8000 Series I/O Node with Intrinsically Safe Field Terminals Common Installation Drawing
SCI-785	1 & 2	5	2.10	Installation Drawing for the 8201-HI-IS 8- Channel Analogue Input Module, with HART
SCI-786	1 & 2	5	2.10	Installation Drawing for the 8204-AO-IS.8-Channel Analogue Output Module
SCI-787	1 & 2	5	2.10	Installation Drawing for the 8215-DO-IS 4- Channel Discrete Output Module, Solenoid Driver
SCI-788	1 & 2	5	2.10	Installation Drawing for the 8220-DI-IS Discrete Input, Switch / Proximity Detector I/O Module
SCI-853	1 & 2	3	2.10	Installation Drawing for the 8205-TI-IS 8-Channel Temperature Input (Thermocouple) Module
SCI-854	1 & 2	3	2.10	Installation Drawing for the 8206-TI-IS 8-Channel Temperature Input (RTD) Module
SCI-929	1 to 5	3	2.10	Installation Drawing for the 8223-PI-IS 2-Channel Pulse / Frequency Input Module
SCI-940	1 & 2	3	2.10	Installation Drawing for the 8202-HO-IS 8- Channel Analogue Output Module, 4-20mA with HART
SCI-941	1 to 3	3	2.10	Installation Drawing for the 8230-AI-IS

^{*} Sheets 1 to 5 of this drawing are common to and held with BAS98ATEX7202/10.

Special Conditions for Safe Use

None.



Issued 5 September 2011 Page 1 of 2

Certificate of Conformity - Variation

This is to certify that System Certificate number:

Ex 98E2203/10

issued to:

GE Intelligent Platforms

of:

2500 Austin Drive, Charlottesville, Virginia 22911,

USA

for the:

8000 I/O Series System with IS Field Terminals

is hereby extended to apply to the system conforming with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate Ex 98E2203

The Electrical Equipment Certification Service, retains responsibility for its original documentation. Baseefa is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

This certificate may only be reproduced in its entirety, without any change, Schedule included.

Baseefa Customer Reference No. 6623

Project File No. 11/0547

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

Ŕ S SINCLAIR

DIRECTOR On behalf of Baseefa



Issued 5 September 2011 Page 2 of 2

Schedule

Description of the variation

Variation 10.1

To permit minor drawing changes not affect the original assessment.

Report No.

None.

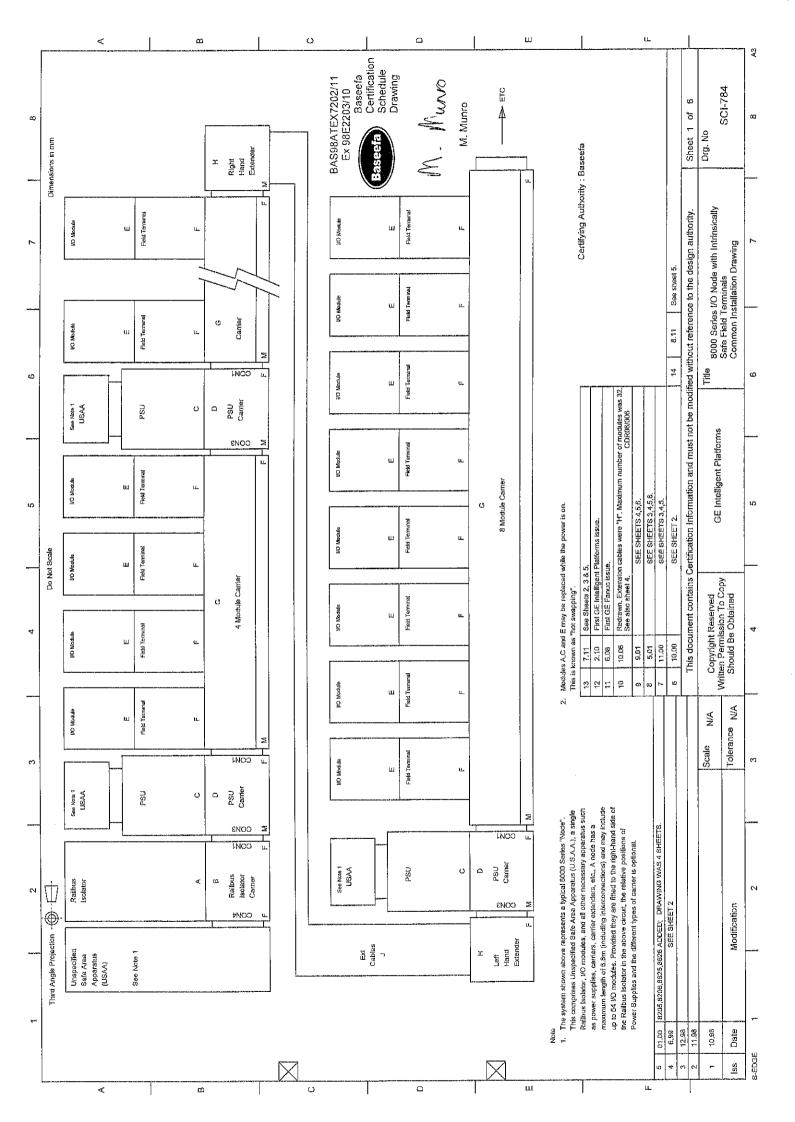
Drawings

Number	Sheet	Issue	Date	Description
SCI-784*	1 to 6	14	8.11	8000 Series I/O Node with Intrinsically Safe Field Terminals Common Installation Drawing
SCI-786	1 & 2	6	7.11	Installation Drawing for the 8204-AO-IS 8-Channel Analogue Output Module
SCI-853	1 & 2	4	8.11	Installation Drawing for the 8205-TI-IS 8-Channel Temperature Input (Thermocouple) Module

^{*} Sheets 1 to 5 of this drawing are common to and held with BAS98ATEX7202/11.

Special Conditions for Safe Use

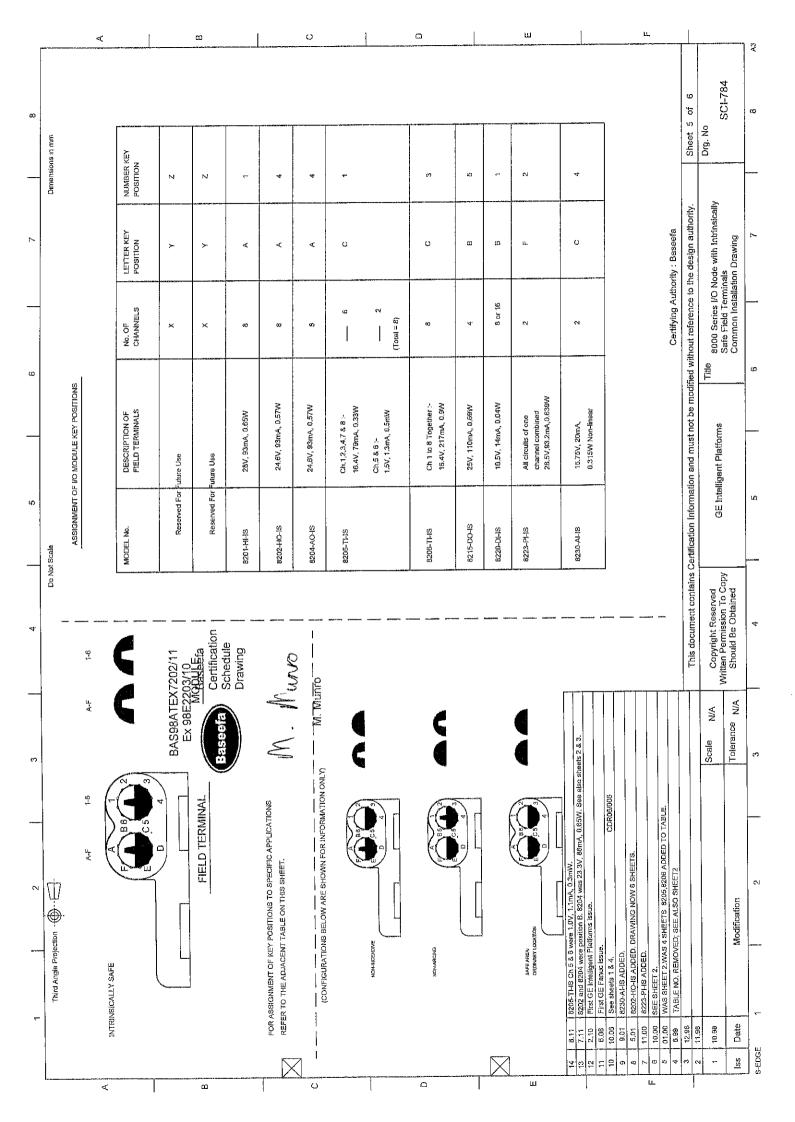
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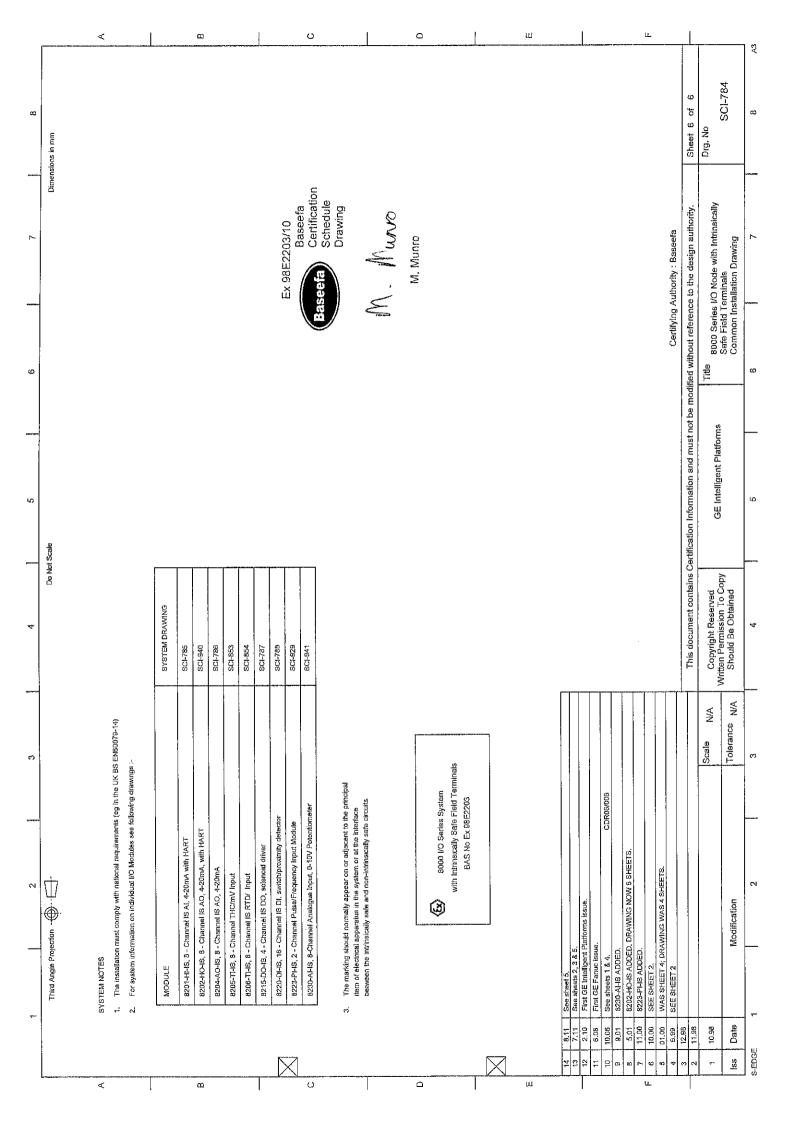


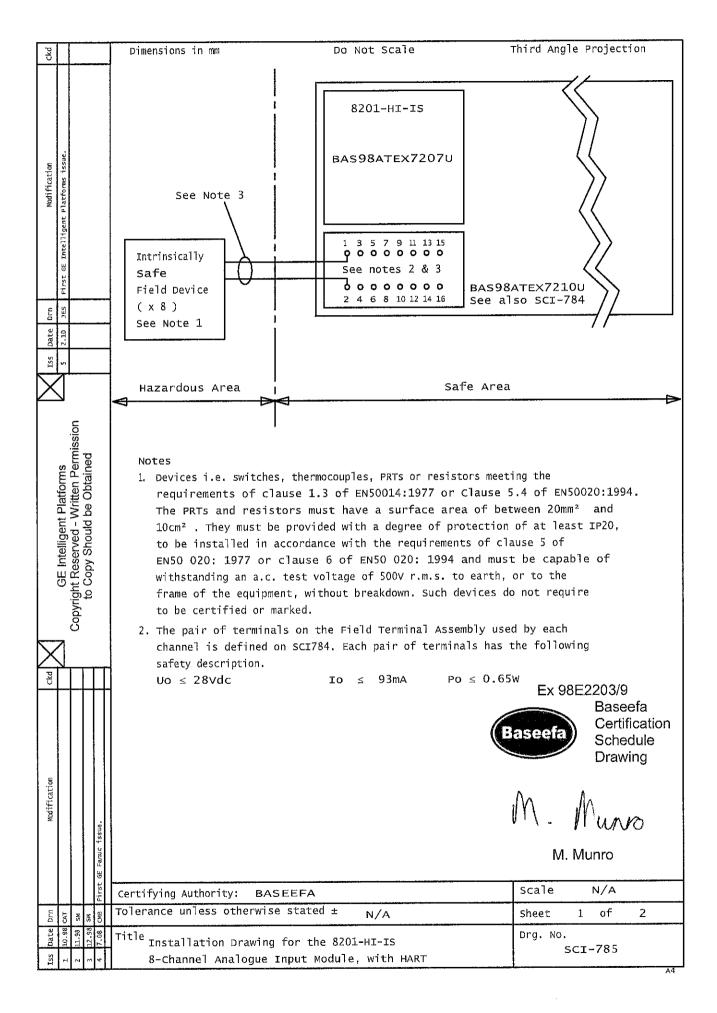
mm in	and an				1	O		Δ	Ex 98E2203/10 Ex 98E2203/10 Baseefa Certification Schedule	Drawing M. Munro			Sheet 2 of 6	Drg. No
Dimensions in mm	ile. vith s wing. hilly ed ed tilon,		MODULE CARRIER	8723-CA-RB or 8725-CA-RB Railbus Carriers, Part of BASSBATEX7208U	8724-CA-PS, IS Power Supply Carrier Part of BAS98ATEX7209U			8720-CA-04, 4 - Modute Carrier, 8727-CA-08, 8 - Modute Carrier, BASSBATEX72101.	BASSBATEXZIUUZ BASSBATEX BASSBATEX SSE	Drawing M. Munro	See short 5.	issue.		8000 Series I/O Node with Intrinsically Safe Field Terminals Common Installation Drawing
	ted to TyO module provided was devices to this dra permaner unoccupit		AEF.	m	۵	F-14446-12-11-12-11-12-11-11-11-11-11-11-11-11-		O		MALLIAND AGGREGATION		Phaiforms	nce to th	s I/O No Termina
	ry keys must be adjust VO Module. VO Module. Idions assigned to each tand 8727-CA-08 are pearth beakage detection added by amendment? O must be fitted to any contract. (Permanently contract.)		CH. No. TERM	Not applicable	Not applicable	1 & 3 5 & 7 9 & 11 13 & 15	182 384 586 788 9810 11842 138,14		17818 19820 23822 25822 25826 25826 31830 31832	1884 588 788 9810 11842 13844		-	fied without refere	Title 8000 Serie Safe Field Common
:	mplete. FTA rott the mating the key pos 720-CA-0 facing with ses will be 420-BK-M ino FTA a		0	Not	Not	- 4	- 01 to 4 10 00 1- 10	~ U w 4 ro ro r w	9 6 5 5 5 5 5 5 5	- N W 4 10 00 1~ 80	14 8.11		be mod	
5. confd	F IAs after installation is complete. At the time of installation the FTA rotary keys must be adjusted to match the pre-set keys on the mating I/O Module. See Table 2 for details of the key positions assigned to each I/O module. So Table 2 for details of the key positions assigned to each I/O module. I/O Module carriers types 6720-CA-04 and 8727-CA-08 are provided with connections to enable interfacing with earth leakage detection devices Details of permissible devices will be added by amendment to this drawing. 7. A Module Bhanking cover 8420-BK-MO must be fitted to any permanently unoccupied implies no I/O Module AND no FTA are intended for the particular tocation.)					innect	med	el Dit		onnect	CDR06/006		contains Certification Information and must not be modified without reference to the design authority.	GE Intelligent Platforms
Do Not Scale		8000 I/O Node with IS Field Terminals	PERMISSIBLE FIELD TERMINALS FOR MODULE	Not applicable	Not applicable	8821-FT-IS, IS Feld Terminal, standard 8822-FT-IS, IS Feld Terminal, loop-disconnect BASS8ATEX7211U	8821-FT-IS, IS Feld Terminal, standard 8822-FT-IS, IS Field Terminal, loop-disconnect BAS98ATEX72110	5824-F14S, 15 Field Terminal, 8 - Channel DI BASSA/TEX7211U, and B823-F14S, 15 Field Terminal, 16-Channel DI BASS8A/TEX7211U/1		8621-F7-IS, IS Field Terminal, Isop-disconnect 8622-F7-IS, IS Field Terminal, Isop-disconnect BASBBATEX7211U	6.08 First GE Fanuc issue. 10.06 SEE SHEETS 1, 4.	9.01 SEE SHEETS 3,4,5,6.	This document contains Certificatio	Copyright Reserved Written Permission To Copy
		0 I/O Node	ļ	Z	ž	8 8 6	8 8 6	18 m 28 m	2007,	ස් ස් ග්	↓	3 83	This	Cop Written F
	8	8000	REF			Ē	<u>a</u>	Œ		<u>T</u>		WAS 4 SHEETS		Scale N/A
Third Angle Projection -	Apparatus to be supplied from source with a maximum norunal voltage of 36V which under abnormal conditions cannot be a source of potential with respect to earth in excess of 250V r.m.s. or 250V d.c. The Node compiness the items shown in the table below. Each I/O Module interfaces to the field via Field Terminal (See table below) For specific output characteristics of individual I/O modules see appropriate component certificate. A rotary keying system ensures comparability between I/O Modules and		MODULE	8922-RB-IS, Railbus Isolator BAS98ATEX7208U	8920-PS-DC, IS Module Power Supply, dc input BAS98ATEX7209U	8215-DO-IS, 4-Channel IS DO, Solenoid Driver BASSBATEX7204U	8204-AO-IS, 8-Channel IS AO, 4-20mA BAS98ATEX7205U	8220-DI-IS, 8 - Channel IS DI, switch/proximity detector 8220-DI-IS, 16 - Channel IS DI, switch/proximity detector 8AS98ATEX7208U		8201-H-IS, 8 - Channel IS AI, 4-20ma with HART BAS88ATEX7207U	E SHEET'S 3.4,5. 5-CA-RB ADDED TO B.	TABLE ON THIS SHEET EXTENDED TO NEXT SHEET; DRAWING WAS 4 SHEETS 8623 & 8729 & DETAILS ADDED; TABLE NO REMOVED		
Third A	baratus to b 18V which t. 1 respect to 3 Node com 12h 1/O Modu. specific our repnate cor insprae cor		MAX QTY.	-	10			45		L	SEE SHEETS 3,4,5. 8725-CA-RB ADDEC	TABLE ON 3623 & 872		
	1. App 1. App of 3) with 2. The 3. Eac 4. For app		REF	₹	O	ŗī	ă	E L	4.404.500.700.	4			12.98	10.98
		L	1	<u> </u>	L	\boxtimes	<u> </u>		\square	<u> </u>		رن -	w 0	

Dimensions in mm				Camer,	BAS98ATEX7202/11 Ex 98E2203/10 Ex 98E2203/10 Baseefa Certification Schedule Drawing	M. Munto		Sheet 3 of 6 Drg. No SCI-784
ā		MODULE CARRIER	n. Water British Balance	8720-CA-04, 4 - Module Cerrier, 8727-CA-08, 8 - Module Cerrier, BASSBATEX7210U	BASSBATEX7210U/2 BASSBATEX7210U/2 EX 98 A BASSBATEX7210U/2 A A A A A A A A A A A A A A A A A A A		Certifying Authority : Baseefa	nout reference to the design authority. 8000 Series I/O Node with intrinsically Safe Field Terminals
		REF		O	T) Authori	s I/O Nor
		CH. No. TERM	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1&2 2 3&4 3 5&6 4 7&8 5 9&10 7 13&12 1 5&14	1 1.2,17 and 16 2 3.4,19 and 20 3 5.6,21 and 22 4 7,8,23 and 24 5 9,10,25 and 28 7 13,14,29 and 30 and 33	1 1, 2, 3, 4, 5, 11, 13, 14, 13, 14, 2, 8, 7, 8, 9, 10, 15, 16	Certifying	odified without referen
Scale		MINALS	IS Feld Terminal, loop disconnect (7211)	IS Field Terminal, Thermocouple 7211U/4	nai, RTD	IS Field Terminal, Standard IS Field Terminal, Loop Disconnect (7211U	See sheels 5. Max, quantity of modules was 32. See also sheets 2 & 5.	contains Certification Information and must not be modified without reference to the design authority. Title 8000 Series I/O Node with Intrinsically Safe Field Terminals
Do Not Scale	8000 I/O Node with IS Field Terminals	PERMISSIBLE FIELD TERMINALS FOR MODULE	8821-FT-IS, IS Field Termi 8622-FT-IS, IS Field Termi BAS98ATEX7211U	8825-FT-IS, IS Field Terni 8-Channel BASS8ATEX7211U/4	. 2626-FT-45, IS Field Terminal, КТD 9-Channel ВАS96ATEX7211U/4	8621-FT-IS, IS Field Term 8622-FT-IS, IS Field Term BASSBATEX7211U	14 6.11 See sheats 5.	Copyright Reserved Written Permission To Copy
	1 0008	REF	£.	G L	E .	æ L	4 2 8	<u> </u>
						a	CDR06/006	5,8625,8628 ADDED; Scale N/A
Third Angle Projection -		MODULE	B202-HC-IS, B-Channel IS AO, 4-20mA with HART BAS01ATEX7185U	8205-THS, 8-Channel IS THC/mV Inpur BAS99ATEX7316U	BAS96ATEX7316U	8223-PHS, 2-Chamel Pulse/Frequency Input Module BASGGATEX7202U	First GE intelligent Platforms issue. First GE Fance issue. First GE Fance issue. SEE SHEETS 1, 4. SEE SHEETS 4, 5. SOZA-HOLIS ADDED. TABLE EXTENDED. DRAWING NOW 6 SHEETS 8223-PUIS ADDED.	SEE SHEET 2. TABLE ON SHEET 2 EXTENDED ONTO THIS NEW SHEET, 8205,6625,8626 ADDEC Scale Tolera
Third		MAX QTY.			8		First GE intelligent First GE Fance iss SEE SHEETS 1, 4 SEE SHEETS 4,5(8202-HO-IS ADDE 8223-PLIS ADDE	SEE SHI TABLE C
		REF	E5	S C	13	82	2.10 6.08 10.05 9.01 5.01	10.98 10.98

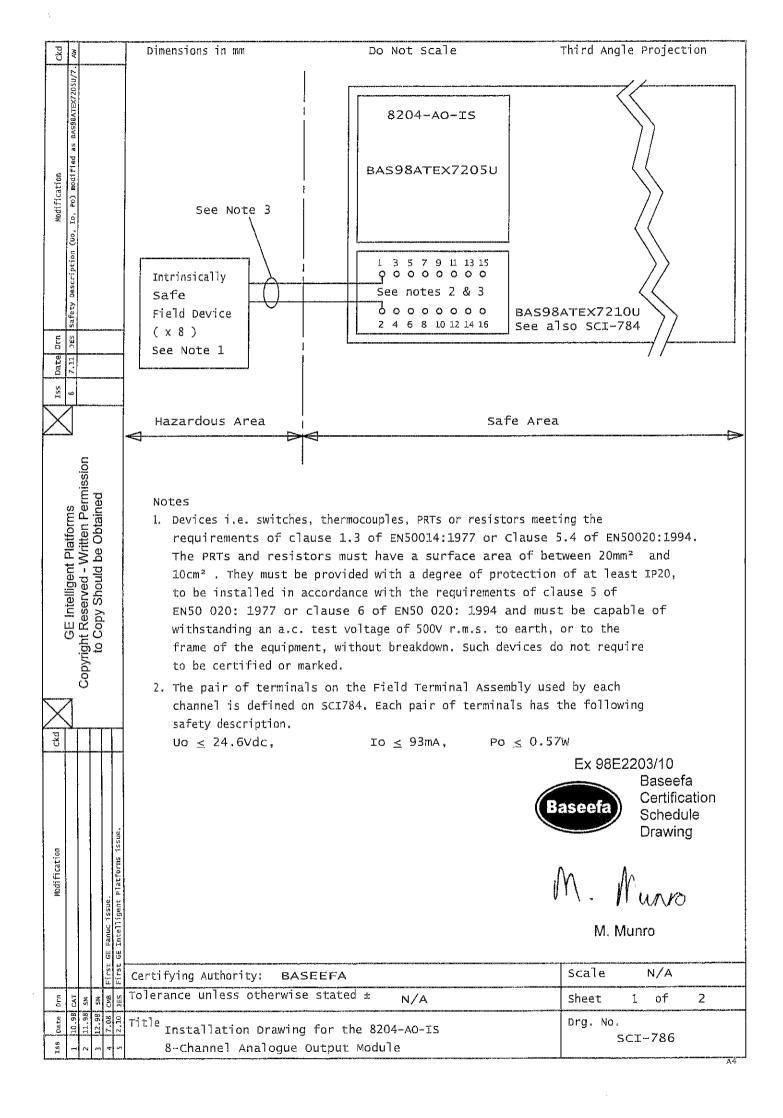
Third Angle Projection	Do Not Scale		Dimens	Dimensions in mm
	8000 I/O Node with IS Field Terminals			
MODULE	REF PERMISSIBLE FIELD TERMINALS FOR MODULE	CH. No. TERM RI	REF MODULE CARRIER	
8230-AHS B-Channel Analogue Input, 0-10V Potentiometer BAS014TEX7346U	F10 8623-FT-IS, Fleid Terminal, 16-channel BAS98ATEX7211U	V+ V- Vo 1 18 17 2 2 20 19 4 3 22 21 6 4 24 23 8 5 26 25 10 6 28 27 12 7 30 29 14 8 32 31 16	B720-CA-D4, 4-Module Carrier, 8727-CA-D8, 8-Module Carrier, BAS96ATEX7210U, 8729-CA-D8, 8-Module Carrier, BAS98ATEX7210U/2	ier, ier, er,
8030-CE-RH, IS Carrier Extender, right-hand 8031-CE-LH, IS Carrier Extender, left-hand	BAS98ATEX7210U			
E Carner Extension Cable Assembly. This cable is comprised of a 19-twisted-par multicore cable, of and heatshrink steeve is greater than or equal to 1 form, each multicore. To writin 10mm of the connector at each end, and a stable Assembles are - 80 10 -CC-XXX (where XXX defines 80 - 80 10 -CC-XXX (where XXX defines 80 - 80 10 -CC-XXX (where XXX defines 80 10 -CC-XXX (where XXX defines 80 10 -CC-XXI (where XXX defines 80 - 80 10 -CC-XXI (where XXX defines 80 - 80 10 -CC-XXI (where XXX defines 80 - 80 10 -CC-XXI (where XXX defines 80 19 -CC-XI (2.0m long). These cables do not need to carry Baseefa approval marking. These cables do not need to carry Baseefa approval marking.	IS Carner Extension Cable Assembly. This cable is comprised of a 19-wisted-part multicore cable, covered by a layer of heatsthrink sleeving. The combined thickness of insulation provided by the multicare that cable is compared to a 19-wisted-part multicore cable. Covered by a layer of heatsthrink sleeve is spalled to over the whole length of the multicare, to within titom of the connected at each end. This cable is connected at each end. These cables of or or need to carry Baseeria approval markings. These cables do not need to carry Baseeria approval markings. This cable is comprised of up to six separately insulated coars, covered by a layer of heasthrink sleeving. The combined trickhees of insulation of any which admin the cable is comprised of up to six separately insulated coars, covered by a layer of heasthrink sleeving. The combined trickhees of insulation of any whole length of the insulated coars, or within 20min of the connected at each end. This cable is comprised of up to six separately insulated coars, covered by a layer of heasthrink sleeving. The combined trickhees of insulation of any whole length of the insulated coars, to within 20min of the connected at each end. This cable is comprised of up to six separately insulated coars, so within 30min of the connected at each end. These cables do not need to carry Baseeria approval markings. These cables do not need to carry Baseeria approval markings.		BASSBATEX7202/11 Ex 98E2203/10 Baseefa Certificat Certificat Drawing M. Munto	77202/11 803/10 Basserfa Certification Schedule Drawing
First GE Intelligent Platforms issue. First GE Ranci Siste.	14 8:11 See sheet 5.	Certifying Au	Certifying Authority : Baseefa	
Is Connet and Power Extension clauses were par to secural ry and carrier basecing markings 6ASB94TAZ10U, Also see sheet 1. CDR06IDIG 8230-AHS ADDED.	13 7.11 See Sheets 2.3 & 5.1 This document contains Certification Information and must not be modified without reference to the design authority.	nodified without reference	o the design authority.	Sheet 4 of 6
THIS SHEET ADDED FOR FUTURE USE.	Scale N/A Copyright Reserved GE Intelligent Platforms Written Permission To Copy	Title 8000 Series VC	8000 Series I/O Node with Intrinsically Safe Field Terminals	Drg. No SCI-784
Modification	Tolerance N/A Should Be Obtained	Common Insta	lation Drawing	



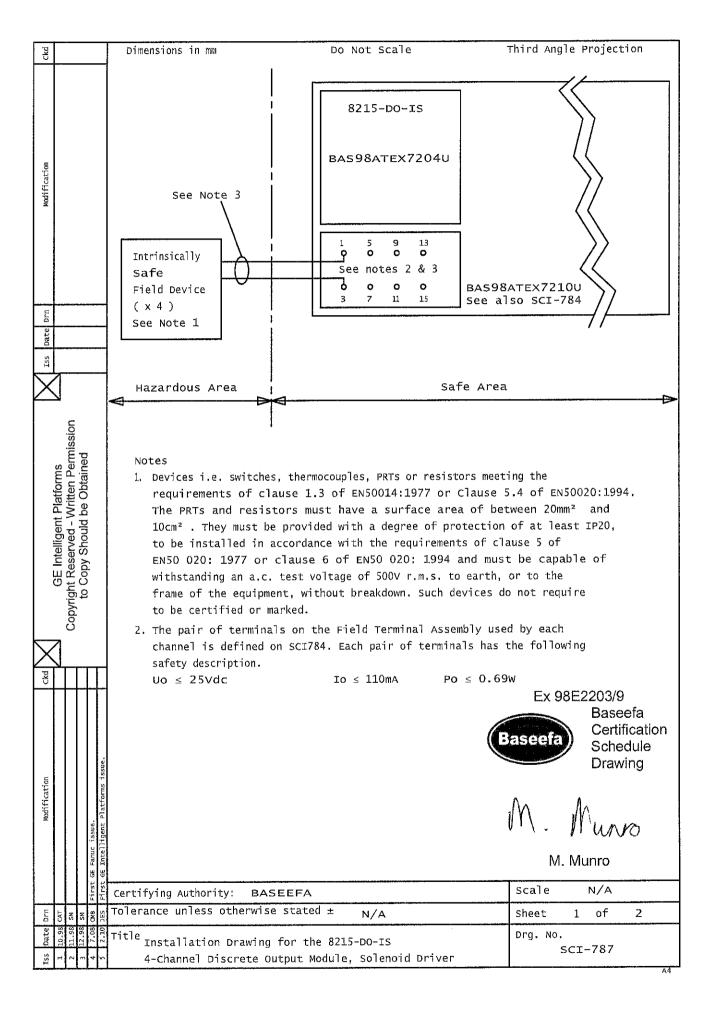




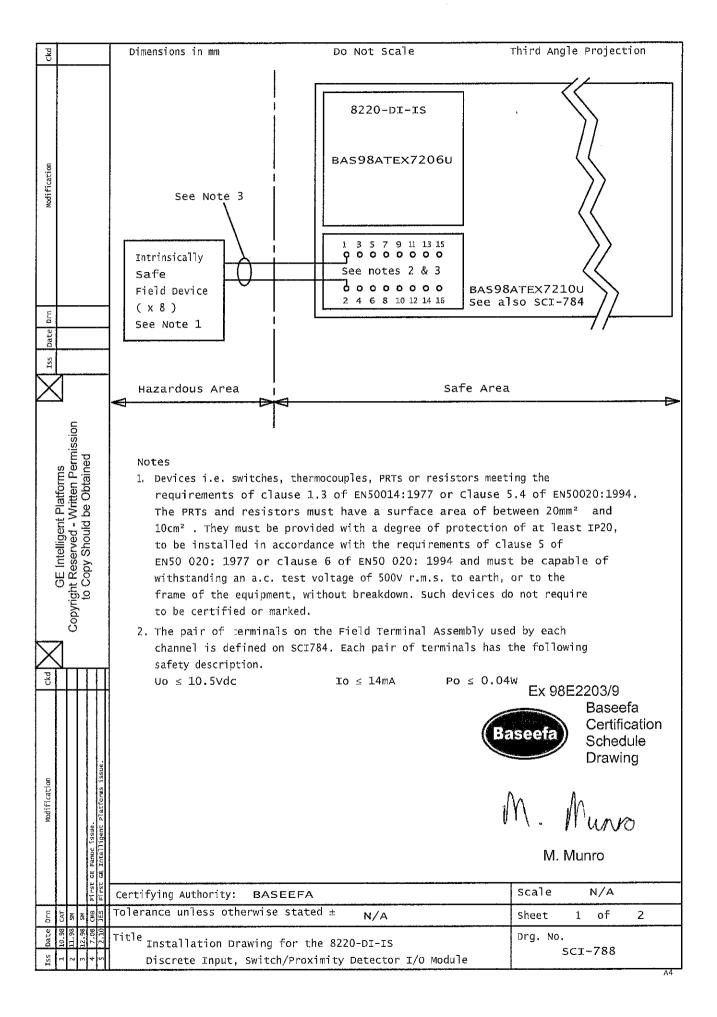
Ckd	Dimensions in mm		Do Not Scale	Thi	ird Angle Projection
<u> </u>			cables which may be given in the table		
	Group Capaci	tance (µF)	Inductance (mH) o	or L/R Ratio (µH/	Ω)
	ł I <u>.</u>	15	36.02	444	
Modification	11 !	. 65	17.72	210	
Modif-	IIC 0	.083	4.3	56	
Iss Date Drn	cables or me multicore ca subject to th a) Each circ individual b) The peak	ans of separ oles (as def ne following: uit within a ly screened;	Type A multicore ca ny circuit within a	Type A or Type E of EN50039) ble is to be	3
\boxtimes					
GE Intelligent Platforms Copyright Reserved - Written Permission to Copy Should be Obtained				Basee	Baseefa Certification Schedule Drawing M. Munro
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Modification GE Fanuc issue.					
First	Certifying Authori	y: BASEE	FA	S	Scale N/A
Drn CAT SM CMB	Tolerance unless	otherwise st	ated ± N/A	S	Sheet 2 of 2
LSS Date 1 10.98 c 2 11.98 3 12.98 4 7.08 c	Title Installation		the 8201-HI-IS out Module with HAR		org. No. SCI-785
	J Chainel /	ma rogue inp	OC HOUSE WILL HAD		A4



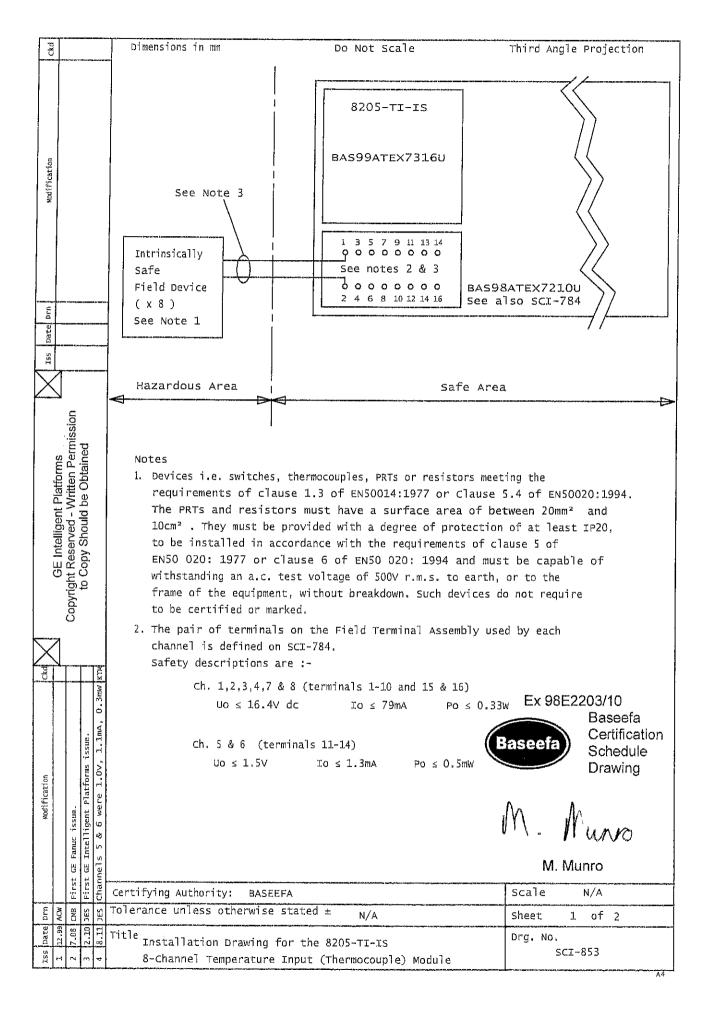
Ckd	NA .		Dimensio	ons in mm	Do Not Scale	**************************************	hird Angle Projection
Modification	ibateX/2030/7.			parameters of loads,)
0.00	S S S S S S S S S S S S S S S S S S S	٠	Group	Capacitance (µF)	Inductance (mH) or	L/R Ratio (µH	- 1 /W)
nor	3		IIA	3.12	36	505	
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ISS Date Drn 6 7 11 1FS Load marganetes (fo. 10	VIII 72 Cotto parameter 3 (kg, to)		cabl mult subj a) b)	0.116 ng to each pair of te es or means of separa icore cables (as def- ect to the following: Each circuit within a individually screened; The peak voltage of a cable must not excee	ate circuits within interesting in clause 5.3 or - Type A multicore cables or the contract of	ved using separ Type A or Type f EN50039) le is to be	В
GF Intelligent Platforms	Copyright Reserved - Written Permission to Copy Should be Obtained				Ex Based	e 98E2203/10 Baseefa Certifical Schedule Drawing	tion e
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1	A SW W	CMB JES	Tolerance	unless otherwise sta	ated ± N/A	20, yz 20	Sheet 2 of 2
Date	10.98 11.98 12.98	2,10	Title Inst	allation Drawing for	the 8204-AO-IS		Drg. No. SCI-786
155	H 2 K	5 4	8- (hannel Analogue Out	put Module	والمراجعة والمحاورة المستخدمة المراجعة المستخدمة المراجعة المستخدمة المستخدم	SC.1-780



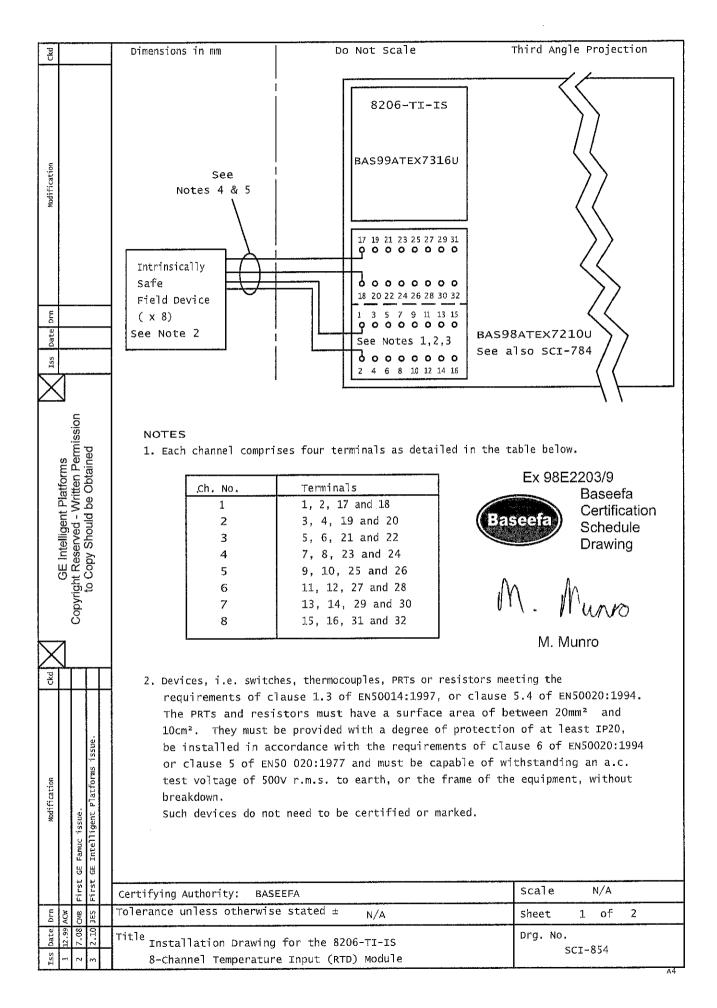
Ckd	Dimensi	ons in mm	Do Not Scale	Third,	Angle Projection
	1	parameters of loads pair of terminals are			
	Group	Capacitance (µF)	Inductance (mH) or	¹ L/R Ratio (μΗ/Ω)	
 5	IIA	2,97	26.12	432	-
Modification	IIB	0.840	13.02	205	
Моді	IIC	0.110	3.08	53	
GE Intelligent Platforms Copyright Reserved - Written Permission to Copy Should be Obtained	cabl mult subj a)	ng to each pair of te es or means of separa icore cables (as def ect to the following: Each circuit within a individually screened; The peak voltage of a cable must not excee	ate circuits within ined in clause 5.3 o - Type A multicore cab ny circuit within a	Type A or Type B f EN50039) le is to be Type B multicore Ex 98E22	03/9 Baseefa Certification Schedule Drawing
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				ul/ - W/c	WNO
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Modification Modification First GE Fanuc issue.	Certifying	Authority: BASEEF	·A	Scale	e N/A
Drn CAT SN CAR F	-	unless otherwise sta	ted ± N/A	Sheet	2 of 2
Date 10.98 11.98 12.98 7.08		allation Drawing for	the 8215-DO-IS	Drg. i	No. SCI-787
1 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	↑ 8- c	hannel Discrete Outpu	ıt Module, Solenoid	Driver	A4



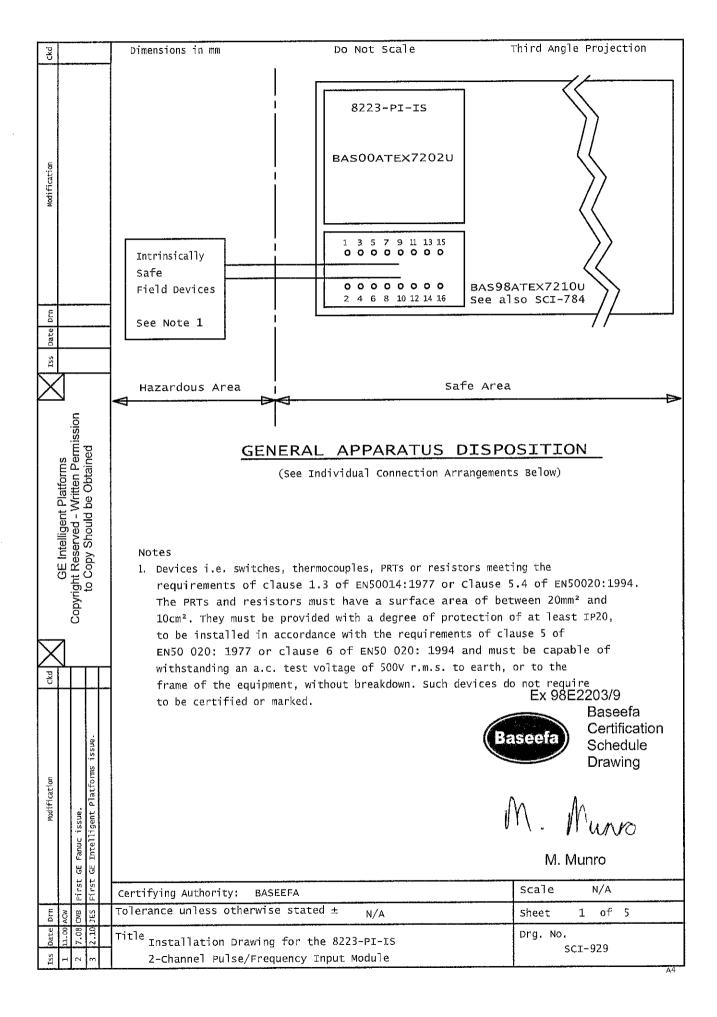
Ckd			Dimensions i	n mm	Do Not Scale	Third Angle	Projection	
				parameters of loads pair of terminals are				
			Group	Capacitance (µF)	Inductance (mH) o	r L/R Ratio (μΗ/Ω)	1	
ation			IIA	75.0	1000	1333	-	
Modification			IIB	16.8	680	1333		
Ĕ			IIC	2.41	175	983]	
Iss Date Drn			 4. wiring to each pair of terminals may be achieved using separate cables or means of separate circuits within Type A or Type B multicore cables (as defined in clause 5.3 of EN50039) subject to the following:- a) Each circuit within a Type A multicore cable is to be individually screened; b) The peak voltage of any circuit within a Type B multicore cable must not exceed 60v. 					
				capte must not excee	.u 00v.			
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Drn	NS SM	3 .		ess otherwise stated	± N/A		2 of 2	
Date Di		2.10	Title Tretalla	tion Drawing for the		Drg. No.		
ISS D	2 E	1 50	Title Installation Drawing for the 8220-DI-IS Discrete Input, Switch/Proximity Detector I/O Module Drg. No. SCI-788				CI-788	
ل							A4	

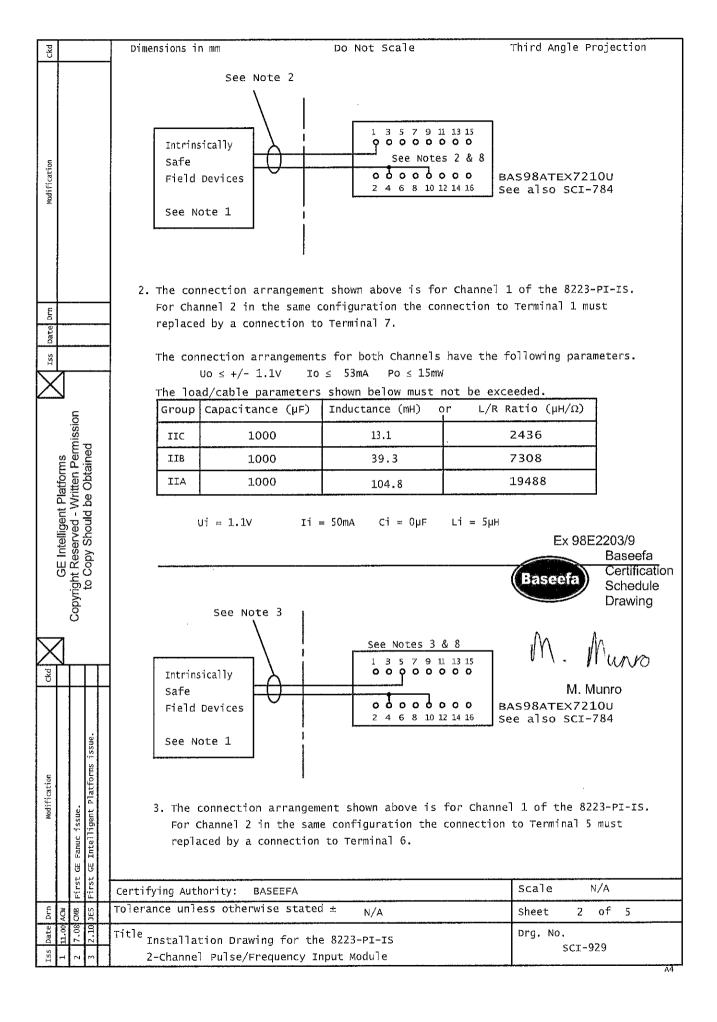


To	Dimensions in mm	Do Not Scale	Third Angle Projection			
Ckd	Do Not Scale		THITTE ANGTE Projection			
Modification	 3. The parameters of loads/cables which may be connected to the terminals of each channel are given in the tables below. TABLE 1 (Channels 1,2,4,7 & 8) Group Capacitance (μF) Inductance (mH) or L/R Ratio (μΗ/Ω) IIC 0.41 5.8 62 1IB 2.49 23.8 227 1IA 9.98 49.1 480 					
Date Drn	TABLE 2 (Channels 5 & 6) Group Capacitance (µF)	Inductance (mH) or L/	['] R Ratio (μΗ/Ω)			
Iss	IIC 100 IIB 1,000 IIA 1,000	1,000 1,000 1,000	1,100 1,100 1,100			
GE Intelligent Platforms Copyright Reserved - Written Permission to Copy Should be Obtained	 4. Wiring to each pair of terminals may be achieved using separate cables, or by means of separate circuits within Type A or Type B multicore cables (as defined in clause 5.3 of EN50039) subject to the following:- a) Each circuit within a Type A multicore cable is to be individually screened; b) The peak voltage of any circuit within a Type B multicore cable must not exceed 60V. Ex 38E2203/10 Baseefa					
Ckd KTM			Baseefa Certification Schedule Drawing			
Modification it GE Fanuc issue. it GE Intelligent Platforms issue.			M - Muvo M. Munro			
First First See sh	Certifying Authority: BASEEFA		Scale N/A			
Drn ACW CMB JES JES	Tolerance unless otherwise st	ated ± N/A	Sheet 2 of 2			
	Title Installation Drawing for 8-Channel Temperature In		Drg. No. SCI-853			

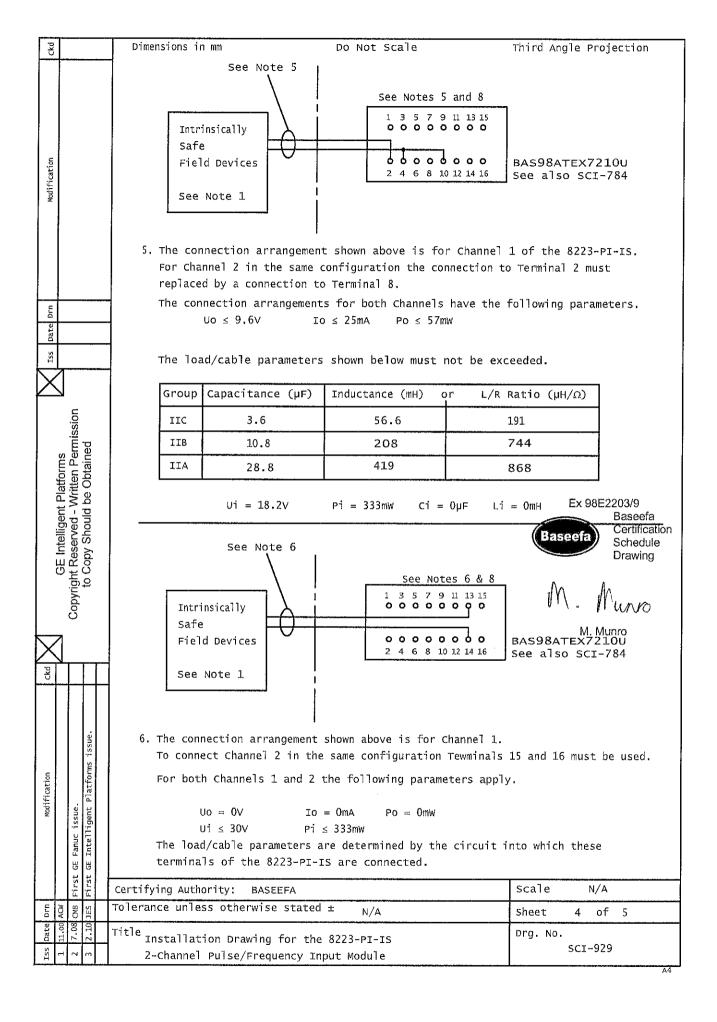


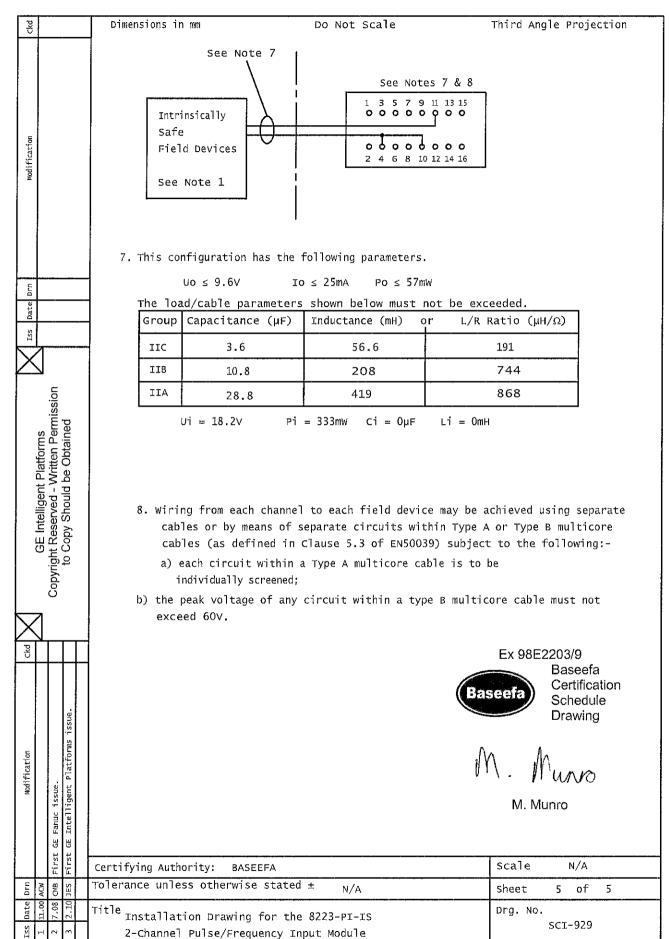
Ckd	Dimensions in mm		Do Not Scale	Third Angl	e Projection	
	NOTES 3. The safety de	scription for	all channels (connec	ted together) is:-		
	Uo ≤ :	L6.4V dc	Io ≤ 217mA	Po ≤ 0.9W		
Modification	· '	rs of all loa given in the t		/ be attached to the o	putput	
	Group Capac	itance (μF)	Inductance (MH) o	r L/R Ratio (μΗ/Ω)		
	IIC O.	389	0.39	20		
	1 1 1	47 96	1.50 4.20	90 182		
E DT		<u> </u>			l	
Iss Date	separate circ	uits within Ty		ither separate cables o core cables, (as define ving:-		
GE Intelligent Platforms Copyright Reserved - Written Permission to Copy Should be Obtained	b) the peak v	a) each circuit within a Type A multicore is to be individually screened: b) the peak voltage of any circuit within a Type B multicore must not exceed 60v. Ex 98E2203/9 Baseefa Certification Schedule Drawing				
\boxtimes				M. Munr	0	
Ckd						
Modification t GE Fanuc issue. t GE Intelligent Platforms issue.						
First	Certifying Authority			Scale	N/A	
e Drn 99 ACW 88 CMB 10 JES	Tolerance unless ot	herwise state	d± N/A	Sheet	2 of 2	
ss Date 1 12.99 2 7.08 3 2.10	Title Installation C	=		Drg. No.	SCI-854	
1 2 2 3	8-Channel Temp	erature Input	, (KID) MODULE		A4	

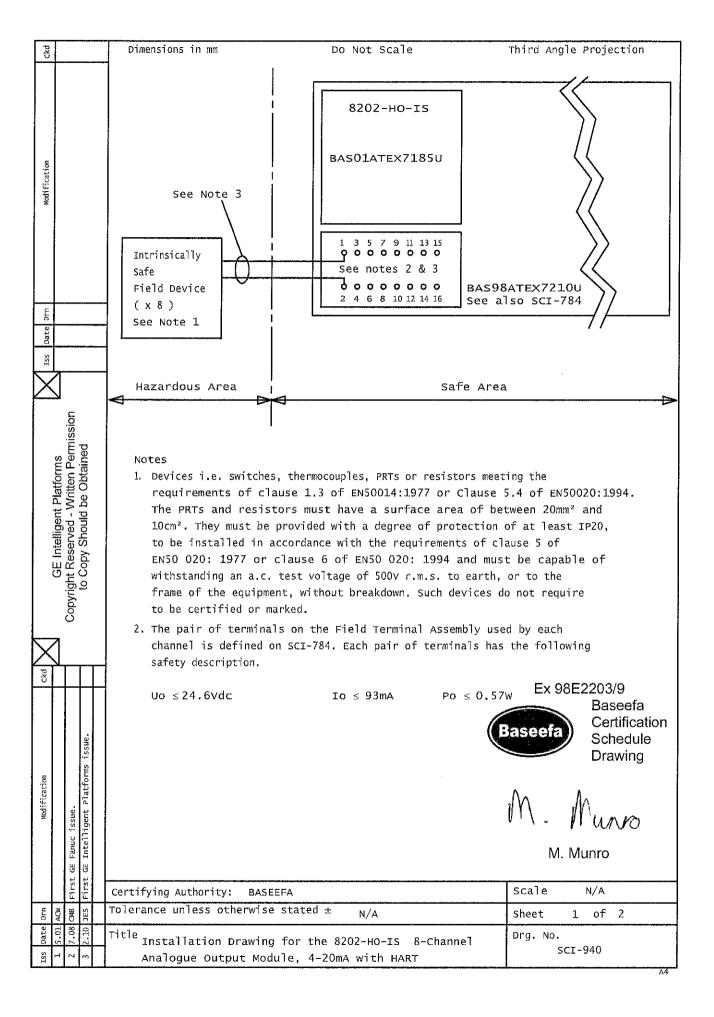




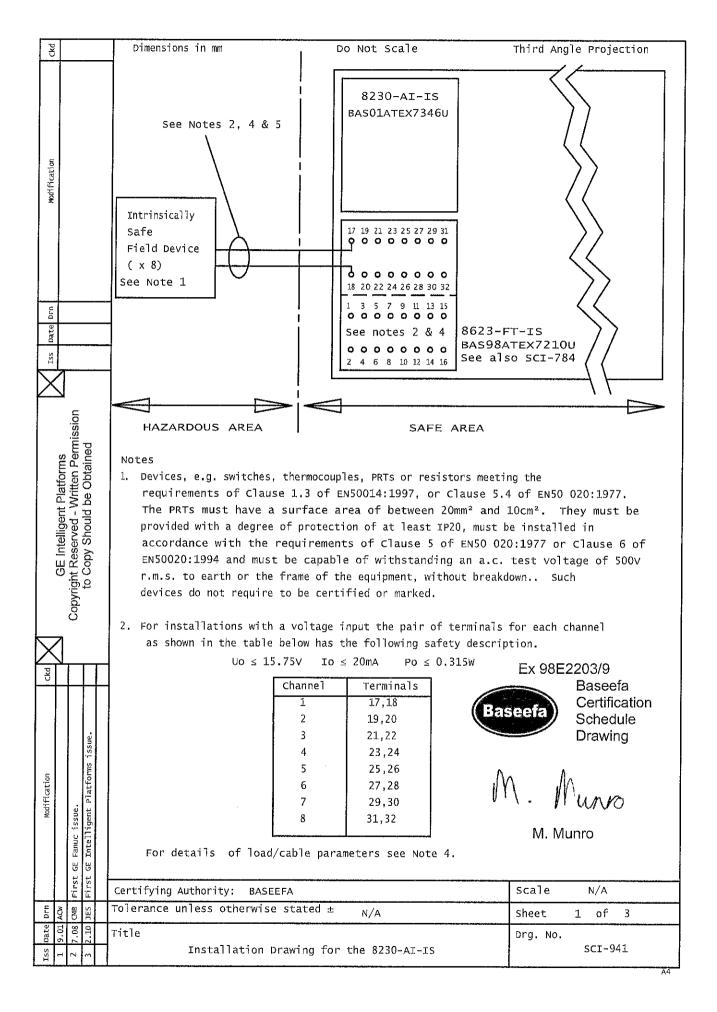
ckď	Dimensions in mm		Do Not Scale	Third Angle Projection
Modification	The load/c Group Cap	tion arrangement ≤ 27.4V Ic = 0µF Li = cable parameters cacitance (µF) 0.087 0.261	o ≤ 93.2mA Po ≤ 639m = 10μH shown below must n Inductance (mH) or 4.2 12.6	ot be exceeded. r L/R Ratio (μΗ/Ω) 56 168
	IIA	0.696	33,6	448
GE Intelligent Platforms Copyright Reserved - Written Permission to Copy Should be Obtained	Intrinsic Safe Field De See Not 4. The com For Channe replaced by The connec	evices e 1 nection arrangem 2 in the same of a connection to	ent shown above is configuration the configuration the configuration of	M. Munro M. Munro BAS98ATEX7210U 12 14 16 See also SCI-784 for Channel 1 of the 8223-PI-IS. nection to Terminal 3 must have the following parameters.
Modification First GE Fanuc issue. First GE Intelligent Platforms issue.	Group Cap IIC IIB IIA	3.6 10.8 28.8 Ui = 18.2V y: BASEEFA	Inductance (mH) or 56.6 208 419 Pi = 333mW Ci =	T L/R Ratio (μΗ/Ω) 191 744 868 = 0μF Li = 0mH
Drn ACW CMB JES	Tolerance unless otherwise stated ± N/A			Sheet 3 of 5
	Title Installation Drawing for the 8223-PI-IS 2- Channel Pulse/Frequency Input Module Drg. No. SCI-929			

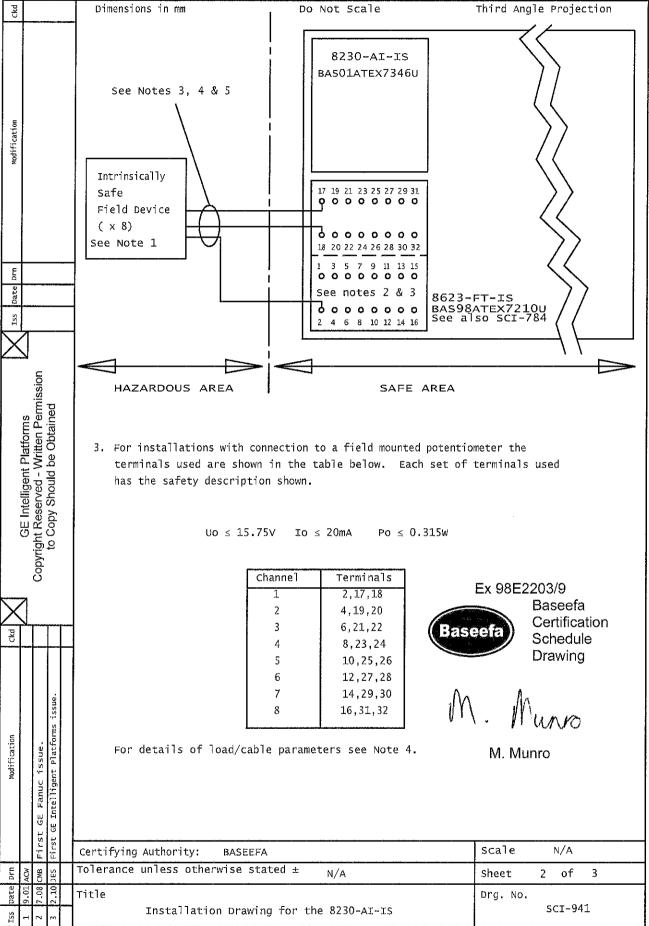






Çk		Dimensio	ons in mm	Do Not Scale	Third	Angle Projection	
			parameters of loads pair of terminals are				
		Group	Capacitance (µF)	Inductance (mH) o	r L/R Ratio (μ H/ Ω)		
ē		IIA	3.12	36.02	505		
Modification		IIB	0.87	17.72	239		
Mod		IIC	0.116	4.30	64		
		4. Wiring to each pair of terminals may be achieved using separate cables or means of separate circuits within Type A or Type B multicore cables (as defined in clause 5.3 of EN50039) subject to the following:- a) Each circuit within a Type A multicore cable is to be					
e Drn		1	ndividually screened; The peak voltage of a	ny circuit within a	Typo B multicopo		
Date			cable must not excee		Type o mutticore		
N N							
\boxtimes					Ex	98E2203/9	
GE Intelligent Platforms	Copyright Reserved - Written Permission to Copy Should be Obtained				Basee	Baseefa Certification Schedule Drawing MUNO M. Munro	
X							
Ckd							
Modification	First GE Fanuc issue. First GE Intelligent Platforms issue.	Certifying	Authority: BASEEFA		Scale	⊇ N∕A	
г <u>я</u>			authority: BASEEFA unless otherwise sta	ted ± 11/4			
te Drn 01 ACW		_1.7		,,,,,,	Sheet		
Iss Date 1 5.01	2 7.0	Insta	llation Drawing for		Channel Drg. I	No. SCI-940	
H T	, x m	Ana 10	gue Output Module, 4	-ZUMA W1TN HART	<u> </u>	A4	





Ç		Dimensions in mm		Do Not Scale	Third Angl	Third Angle Projection	
	The state of the s	4. The parameters of loads/cables which may connected to the terminals of each channel in either the voltage input or potentiometer input configuration are shown in the table below.					
Modification		Group	Capacitance (µF)	Inductance (mH) or	L/R Ratio (μΗ/Ω)]	
Modifi		IIC	0.47	87.5	334	_	
		IIB	2.88	328	952		
		IIA	11.6	633	952]	
Iss Date orn	GE Intelligent Platforms Copyright Reserved - Written Permission to Copy Should be Obtained	5. Wiring to the terminals of each channel may be achieved using separate cables or by means of separate circuits within Type A or Type B multicore cables (as defined in Clause of EN50039) subject to the following:- a) Each circuit within a Type A multicore cable is to be individually screened; b) The peak voltage of any circuit within a Type B multicore cable must not exceed 60v. Ex 98E2203/9 Baseefa Certification Schedule Drawing					
	Copyr				.An An		
X	1				VY\ - W.	wo	
Skd Skd					M. Muni	ro	
Modification	t GE Fanuc issue. GE Intelligent Platforms issue.						
	First First G	Certifying Auth	ority: BASEEFA		Scale	N/A	
Drn	ACW OMB JES	Tolerance unle	ss otherwise stated	± N/A	Sheet	3 of 3	
Iss Date	1 9.01 2 7.08 3 2.10	Title In	stallation Drawing	for the 8230-AI-IS	Drg. No.	SCI-941	
						A	