



EC-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

EC-Type Examination Certificate Number : **BAS01ATEX7131X**

Equipment or Protective System: **DUAL CHANNEL TRANSFORMER ISOLATED DRIVER
EUROCARD TYPE EGT-105/./...**

Manufacturer: **PEPPERL + FUCHS GB LIMITED**

Address: **Oldham, Lancashire, OL1 4EL**

This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

The Electrical Equipment Certification Service, notified body number 600 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

01(C)0056 dated 17 April 2001

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + Amds 1 & 2

EN 50020: 1994

except in respect of those requirements listed at item 18 of the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

The marking of the equipment or protective system shall include the following:-

 **II (1) GD [EEEx ia] IIC (T_a = -20°C to +60°C)**

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

File No: **EECS 0807/02/194**

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.



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I M CLEARE
DIRECTOR
9 May 2001



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX7131X

15

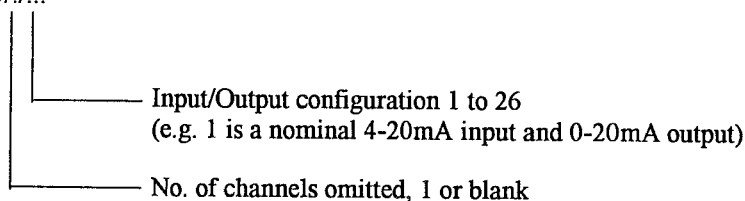
Description of Equipment or Protective System

The Dual Channel Transformer Isolated Driver Eurocard Type EGT-105/./... is a dual channel card designed to provide an interface between unspecified non-hazardous area apparatus and intrinsically safe circuits in a hazardous area without the need for a high integrity earth. The Eurocard is designed to be mounted in a certified rack.

The card contains two separate, identical output driver circuits each comprising three transformers and other electronic components mounted on a printed circuit board. A socket on the rear of the board plugs into a corresponding connector in the rack and there is a facia panel on the front of the card. An insulating side cover is fitted to one side of the card to protect the electronic components from the exposed trackwork of an adjacent Eurocard.

The Eurocard is available with options which are identified as follows:-
This change in configuration does not affect the safety parameters.

EGT-105/./...



Input Parameters

Pins d14 & z14, d30 & d32 and z30 & z32.

$U_m = 250V$

The apparatus is designed to be powered from a supply of $\leq 40V$

Output Parameters

Output 1 (Pins d2 & d4)

Output 2 (Pins z2 & z4)

$U_o = 25.2 \text{ Volts}$

$I_o = 93 \text{ mA}$

$P_o = 0.57W$



Schedule

EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX7131X

The load connected to each Hazardous Area Circuit must not exceed the following values:-

GROUP	C μ F	L mH	OR L/R RATIO in μ H/ohm
IIC	0.107	4.3	62
IIB	0.82	17.7	234
IIA	2.9	36	493

Report No.

01(C)0056

Special Conditions for Safe Use

- 1) The Dual Channel Transformer Isolated Driver Eurocard Type EGT-105/... must be mounted in an enclosure or rack which affords a degree of protection of at least IP20 e.g. a rack built to drawing number E330215B Sheets 1 to 10 held with this Certificate or a Rack Type TCF21/Ex... (Certificate No. Ex 90C2344).

18. Essential Health and Safety Requirements

ESSENTIAL HEALTH & SAFETY REQUIREMENTS not covered by standards listed in Section 9		
Clause	Subject	Compliance
1.1.3	Changes in characteristics of materials and combinations thereof	Report No 01(C)0056 Clause 5.1.1.3
1.2.2	Components for incorporation or replacement	Report No 01(C)0056 Clause 5.1.2.2
1.2.5	Additional means of protection	Report No 01(C)0056 Clause 5.1.2.5
1.2.7	Protection against other hazards	Report No 01(C)0056 Clause 5.1.2.7
1.4.2	Withstanding attack by aggressive substances	Report No 01(C)0056 Clause 5.1.4.2

19 DRAWINGS

Number	Sheet	Issue	Date	Description
251-0445A	1	A	11.12.00	Circuit Diagram
252-1177D	1 to 8	D	11.12.00	Parts List
255-1445E	1 to 4	E	4.12.98	PCB Master
257-0223A	1 & 2	A	12.01.01	PCB Lacquer details
253-0270A	1	A	09.01.01	Component Overlay
252-1203B	1	B	08.12.00	Transformer T1 Parts List



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX7131X

Number	Sheet	Issue	Date	Description
252-1204B	1	B	08.12.00	Transformer T2 Parts List
252-1205B	1	B	08.12.00	Transformer T3 Parts List
256-0149A	1	A	08.12.00	Transformer T3 Winding Details
256-0150A	1	A	08.12.00	Transformer T1 Winding Details
256-0151A	1	A	08.12.00	Transformer T2 Winding Details
256-0080B	1	B	08.12.00	Transformer T1 Connection Details
256-0081B	1	B	08.12.00	Transformer T2 Connection Details
256-0082B	1	B	08.12.00	Transformer T3 Connection Details
255-0751C	1 & 2	C	14.01.99	Transformer PCB Master
254-0263A	1	A	16.06.98	Transformer Moulding Details
254-0315A	1 & 2	A	09.01.01	General Assembly
260-1500A	1	A	10.01.01	Label Artwork
255-1498A	1	A	10.01.01	Side plate cutting Details
254-0267C	1 & 2	C	06.12.00	Eurocard Connector Coding
E330215B	1 to 10	B	21.11.90	General requirements - 19" Rack

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BASEEFA List Keywords

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