



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 03ATEX9557X

4 Equipment: QF and QL Solenoids

5 Applicant: Goyen Controls

6 Address: 268 Milperra Road  
Milperra  
Sydney  
New South Wales 2214  
Australia

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number R53A10246A.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50281-1-1:1998

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

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

 II 2 D  
IP6X T50°C

M D Shearman  
Certification Manager

Project Number 53A10246  
Date 10 June 2004  
C. Index 01

This certificate and its schedules may only be reproduced in its entirety and without change



## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

Sira 03ATEX9557X

#### 13 DESCRIPTION OF EQUIPMENT

The QF and QL solenoids comprise a fully encapsulated solenoid with flying leads protruding from the encapsulation. They fit on to a cylindrical metallic core and are kept in position by external means as accommodated in the core configuration. The solenoid is rated at 12 V or 24 V dc, 100 up to 240 V, 50 or 60 Hz and power ratings up to 25 watts. The solenoids may only be energised on a duty cycle of maximum 0.5 seconds on, minimum 60 seconds off.

#### 14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Sheet	Rev.	Date	Description
	601269	1 of 1	-	24 May 04	QL Coil
	601270	1 of 1	-	24 May 04	QF Coil
	601271	1 of 1	-	24 May 04	Label QL and QF coils

14.2 Report No. R53A10246A

#### 15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 The solenoids shall be operated on a maximum duty cycle of 0.5 seconds on, 60 seconds off.

15.2 The flying leads shall be appropriately terminated.

15.3 The equipment is only suitable for areas with a low risk of impact.

#### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in Report No. R53A10246A.

#### 17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

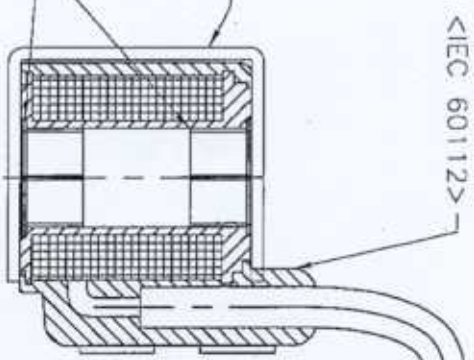
17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Date 10 June 2004

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ENCAPSULATE WITH  
PURPLE S223-DH  
NYLON 66  
CTI INDEX 600 <IEC 60112>

COIL BRK  
MILD STEEL  
ZINC PASSIVATED  
3429-10



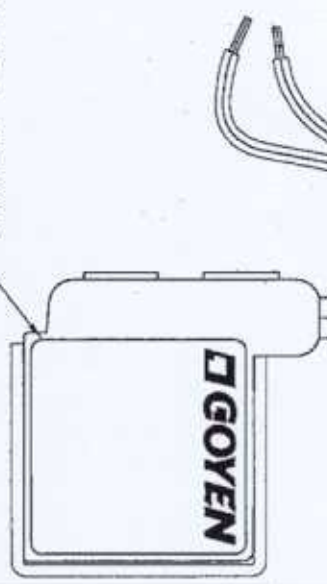
FOR ALL OTHER DETAILS SEE  
DRG: A4 60146

601121 (L COIL LEAD  
75°C MAX RATED

WATTS  
VOLTS  
Hz  
(SEE BELOW FOR  
VOLTAGE)

NOTE: 2.0 HIGH LETTERING

REFER TO LABEL DRAWING  
601271 FOR APPROVAL  
DETAILS



**APPROVED DOCUMENT**  
SIRA 10 JUN 2004  
ON BEHALF OF SIRA CERTIFICATION SERVICES

Note: Nylon material has UV stabilisers added

200/240 V 50/60 Hz	25 WATTS
100/120 V 50/60 Hz	21 WATTS
24 V 50/60 Hz	19 WATTS
24 V DC	20 WATTS
12 V DC	20 WATTS

1	PRODUCTION RELEASE	ECRO 7555	24/05/2004	ECRO DATE	AUTHORISED
ISS	DETAILS OF CHANGE				

D.O.CHECK	21.01.04
DATE	GT
DRAWN	

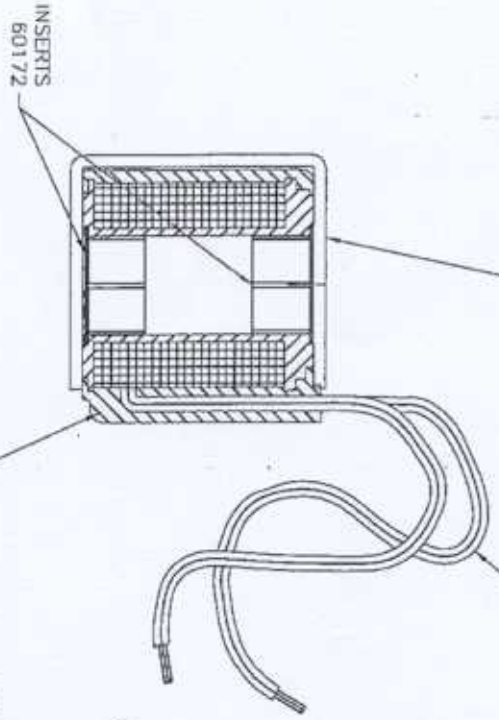
3rd ANGLE PROJECTION

**DGOYEN** is the first choice for Control Technology Solutions that enhance the reliability, quality & productivity of our Customers' Control Systems.

MATERIAL SPEC. TOLERANCE UNLESS OTHERWISE STATED LINEAR ±0.2 ANGULAR ±0.5°  
TEST SPEC. REMOVE ALL BURRS, FLASH & SHARP EDGES: MAX. 0.2x45° or 0.2 RAD.  
PROCESS SPEC. DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN DO NOT SCALE DRAWING

SCALE 1:1  
SHEET 1 OF 1  
FIRST USED ON NO 601269

COIL BRK  
MILD STEEL  
ZINC PASSIVATED  
3439-B



WATTS  
(SEE BELOW FOR  
VOLTAGE)

ENCAPSULATE WITH  
PURPLE S223-DH NYLON 66  
CTI INDEX 600 <IEC 60112>

Note: Nylon material has UV stabilisers added

NOTE: 2.0 HIGH LETTERING

FOR ALL OTHER DETAILS SEE  
DRG: A4 60181-60182

REFER TO LABEL DRAWING  
601271 FOR APPROVAL  
DETAILS

**APPROVED DOCUMENT**  
Sira 10 JUN 2004  
ON BEHALF OF SIRCA CERTIFICATION SERVICES

1	PRODUCTION RELEASE	ECRD 7555 24/05/2004	ECRD DATE	AUTHORISED
MATERIAL SPEC.				
TEST SPEC.				
PROCESS SPEC.				

D.O.CHECK	DATE	21.01.04
DRAWN	GT	

TOLERANCE  
UNLESS OTHERWISE STATED  
LINEAR ±0.2 ANGULAR ±0.5°

REMOVE ALL BURS, FLASH & SHARP  
EDGES: MAX. 0.2x45° or 0.2 RAD.

DIMENSIONS IN MILLIMETERS  
UNLESS OTHERWISE SHOWN  
DO NOT SCALE DRAWING

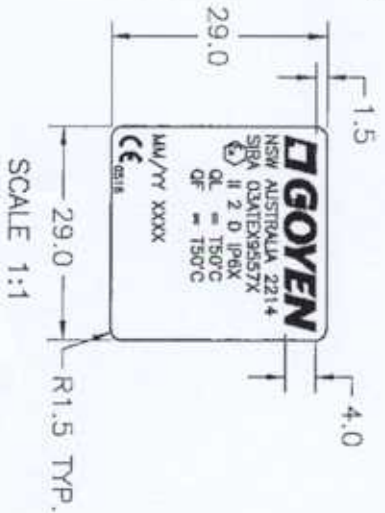
200/240 V 50/60 Hz	25 WATTS
100/120 V 50/60 Hz	21 WATTS
24 V 50/60 Hz	19 WATTS
24 V DC	20 WATTS
12 V DC	20 WATTS

**GOYEN** is the first choice to  
Control Technology Solutions that enhance  
the reliability, quality & productivity of our  
Customers' Control Systems.

TITLE  
QF' COIL

3rd ANGLE PROJECTION	SCALE 1:1
SHEET 1	OF 1
FIRST USED ON	

NO 601270



Note:  
Adhere label to approved QF  
& QL coils  
601270 and 601269



APPROVED DOCUMENT  
SIRA 10 JUN 2004  
ON BEHALF OF SIRA CERTIFICATION SERVICE

1	PRODUCTION RELEASE	ECRO 7555 24/05/2004	ECRO DATE	AUTHORISED
MATERIAL SPEC.		SCOTCH MARK 7883 (3M) SILVER POLYESTER		
TEST SPEC.		REMOVE ALL BURRS, FLASH & SHARP EDGES. MAX. 0.2x45' or 0.2 RAD.		
PROCESS SPEC.		DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN DO NOT SCALE DRAWING		

D.O.CHECK	20.01.04
DATE	GT
DRAWN	

ITEM	PART NUMBER	DESCRIPTION	P	QTY
1		<b>Goyen</b> is the first choice for Control Technology Solutions that enhance the reliability, quality & productivity of our Customers' Control Systems.		
SCALE 3:1		ATEX LABEL		
3rd ANGLE PROJECTION		FOR QL & QF COILS		
SHEET 1 OF 1				
FIRST USED ON INDUSTRIAL LABEL 90410				
NO 601271				