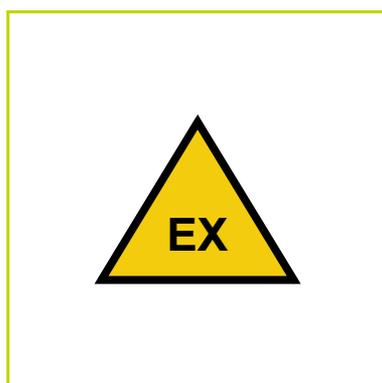


EX CERTIFICATE – UK

vibro-meter®

CML 21 UKEX 4549 X
for
TQ9xx proximity sensors
and IQS9xx signal conditioners



Note: Although the Ex certificate may be included in more than one language, the liability of the notified body applies only on the text of the original copy of the certificate that it published.

Document reference CML 21 UKEX 4549 X
Edition 1 – September 2021

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Type Examination Certificate CML 21UKEX4549X Issue 0

United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended)
- 2 Equipment **TQ 9** Proximity sensor and IQS 9** Signal conditioner**
- 3 Manufacturer **Meggitt SA**
- 4 Address **Route de Moncor 4,
1752 Villars-sur-Glane,
Switzerland**

- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, 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 Schedule 1 of the Regulations.
- 7 The examination and test results are recorded in the confidential reports listed in Section 12. If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:
EN IEC 60079-0:2018 EN 60079-7:2015 + A1:2018

- 10 The equipment shall be marked with the following:
 Refer to attached certificate LCIE 21 ATEX 1004 X, Issue 00 for specific marking of explosion protection symbols.
Refer to attached certificate LCIE 21 ATEX 1004 X, Issue 00 for marked code and ambient temperature range.


L. A. Brisk
Certification Officer

This certificate shall only be copied in its entirety and without change
www.CMLEx.com

1 of 2



**CML 21UKEX4549X
Issue 0**

- 11 **Description**
For product description refer to attached certificate LCIE 21 ATEX 1004 X, Issue 00.
- 12 **Certificate history and evaluation reports**

Issue	Date	Associated report	Notes
0	04 Aug 2021	R14182J/00	Issue of the prime certificate. LCIE 21 ATEX 1004 X, Issue 00 is attached and shall be referred to in conjunction with this certificate.

- Note: Drawings that describe the equipment are listed in the Annex.
- 13 **Conditions of Manufacture**
For conditions of manufacture, refer to attached certificate LCIE 21 ATEX 1004 X, Issue 00. Any routine tests/verifications required by the ATEX certification shall be conducted
 - 14 **Specific Conditions of Use**
For specific conditions of use, refer to attached certificate LCIE 21 ATEX 1004 X, Issue 00.

This certificate shall only be copied in its entirety and without change
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Version: 4.0 Approval: Approved



ATTESTATION D'EXAMEN DE TYPE - ANNEXE TYPE EXAMINATION CERTIFICATE - SCHEDULE



Issue : 00

1 Version : 00 LCIE 21 ATEX 1004 X

Directive 2014/34/EU
Appareil ou Système de Protection destiné à être utilisé en Atmosphères Explosibles

Product : **Capteur de proximité TQ 9** et Conditionneur de signal IQS 9****

Type : **111-9**-000-*** & 204-9**-000-*****

Fabricant : **MEGGITT SA**
Adresse : Route de Mensor 4
1752 Villars-sur-Glâne
SUISSE

Product : **TQ 9** Proximity sensor and IQS 9** Signal conditioner**

Type : **111-9**-000-*** & 204-9**-000-*****

Fabricant : **MEGGITT SA**
Adresse : Route de Mensor 4
1752 Villars-sur-Glâne
SUISSE

Product : **TQ 9** Proximity sensor and IQS 9** Signal conditioner**

Type : **111-9**-000-*** & 204-9**-000-*****

Fabricant : **MEGGITT SA**
Adresse : Route de Mensor 4
1752 Villars-sur-Glâne
SUISSE

Product : **TQ 9** Proximity sensor and IQS 9** Signal conditioner**

Type : **111-9**-000-*** & 204-9**-000-*****

Fabricant : **MEGGITT SA**
Adresse : Route de Mensor 4
1752 Villars-sur-Glâne
SUISSE

Product : **TQ 9** Proximity sensor and IQS 9** Signal conditioner**

Type : **111-9**-000-*** & 204-9**-000-*****

Fabricant : **MEGGITT SA**
Adresse : Route de Mensor 4
1752 Villars-sur-Glâne
SUISSE

Product : **TQ 9** Proximity sensor and IQS 9** Signal conditioner**

Type : **111-9**-000-*** & 204-9**-000-*****

Fabricant : **MEGGITT SA**
Adresse : Route de Mensor 4
1752 Villars-sur-Glâne
SUISSE

Product : **TQ 9** Proximity sensor and IQS 9** Signal conditioner**

Type : **111-9**-000-*** & 204-9**-000-*****

Fabricant : **MEGGITT SA**
Adresse : Route de Mensor 4
1752 Villars-sur-Glâne
SUISSE

1 Version : 00 LCIE 21 ATEX 1004 X

DESCRIPTION DU PRODUIT
Le capteur de proximité TQ 9** et le conditionneur de signal IQS 9** font partie d'un système de mesure de proximité. Le système peut également comprendre un câble de rallonge EA 9** non couvert par la présente attestation.

Ce système de proximité permet une mesure sans contact du déplacement relatif des éléments mobiles d'une machine tel qu'une tige. La tension ou le courant de sortie du système est proportionnel(e) à la distance entre la tête du capteur et la cible métallique.

Le capteur TQ 9** est équipé d'un câble coaxial intégral, terminé par un connecteur coaxial miniature auto-bloquant. Sa partie active est constituée d'une bobine de fil nouée dans la tête du capteur en matériau thermoplastique. Le corps filé du capteur est en acier inoxydable.

Le conditionneur de signal IQS 9** est doté d'un modulateur/démodulateur haute-fréquence fournissant le courant d'excitation de la bobine du capteur. Ceci génère un champ électromagnétique à l'extrémité du capteur qui crée alors des courants de Foucault dans la cible métallique. Lorsque la cible se déplace, les courants de Foucault changent, ce qui entraîne un changement des caractéristiques électriques du capteur TQ 9** que le conditionneur de signal convertit en un signal proportionnel à la distance à la cible. L'électronique du conditionneur est montée dans un boîtier en aluminium et elle est totalement enrobée dans du silicone. Le conditionneur de signal possède un connecteur coaxial pour la connexion au capteur. La sortie du conditionneur peut être configurée comme un signal de courant (mode de transmission 2 fils) ou de tension (mode de transmission 3 fils). A des fins de test, l'IQS 9** comprend également un signal de sortie de tension «brute» et un signal d'entrée de test qui permettent de tester in situ la chaîne de mesure / le fonctionnement du système.

The proximity system allows a contactless measurement of the relative displacement of moving machine elements such as the shaft. The system output voltage or current is proportional to the distance between the sensor head and the metallic target.

The TQ 9** sensor has an integral coaxial cable, terminated with a self-locking miniature coaxial connector. Its active part comprises of a coil of wire that is moulded inside the sensor head made of a thermoplastic material. The sensor body is made of stainless steel.

The IQS 9** signal conditioner contains a high-frequency modulator/demodulator that supplies the driving signal to the coil of the sensor. This generates an electromagnetic field in the sensor head, which then induces eddy currents into the metallic target. When the target moves, the eddy currents change, which causes a change in the electrical characteristics of the TQ 9** that the signal conditioner converts into a signal that is proportional to the distance to the target. The electronics of the conditioner is mounted in a metallic housing and it is totally embedded into a silicone casting compound.

The signal conditioner has a coaxial connector for the connection to the proximity sensor. The output of the IQS 9** conditioner can be configured as a current (2-wire transmission mode) or a voltage signal (3-wire transmission mode). For test purposes, the IQS 9** includes a "raw" voltage output signal and a test input signal that allow the measurement chain/system operation to be tested in situ.

The designation of type of the IQS 9** will be completed by digits for example related to the measuring range and sensitivity, the total system length or whether the type of mounting.

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1 Version : 00 LCIE 21 ATEX 1004 X

DESCRIPTION OF PRODUCT
The TQ 9** proximity sensor and the IQS 9** signal conditioner are part of a proximity measurement system. The system can also include an EA 9** extension cable which is not covered by this certificate.

The proximity system allows a contactless measurement of the relative displacement of moving machine elements such as the shaft. The system output voltage or current is proportional to the distance between the sensor head and the metallic target.

The TQ 9** sensor has an integral coaxial cable, terminated with a self-locking miniature coaxial connector. Its active part comprises of a coil of wire that is moulded inside the sensor head made of a thermoplastic material. The sensor body is made of stainless steel.

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ATTESTATION D'EXAMEN DE TYPE - ANNEXE TYPE EXAMINATION CERTIFICATE - SCHEDULE

ATTESTATION D'EXAMEN DE TYPE - ANNEXE TYPE EXAMINATION CERTIFICATE - SCHEDULE

1 Version : 00

LCIE 21 ATEX 1004 X

Issue : 00

Captreur de proximité TQ 9** :

111 * 9 * * * 000 - * * *

TQ 9** Proximity sensor:

111 * 9 * * * 000 - * * *

<p>Numéro de modification mineure / Minor modification number (FFF = Form Fit F-unction) 0 à/à 9 (le numéro est incrémenté à chaque modification) / (each modification increases the number by 1)</p>	
<p>Types de câble, de protection de câble et de manchon de protection (selon les applications des clients) Cable, cable protection and protection sheath types (according to customers applications) 00 à/à 99</p>	
<p>Dimension de l'élément de mesure (Pointe de capteur) <i>Dimension of the measurement element (Sensor tip)</i></p>	
1	= Ø 5mm nominal
2	= Ø 8mm nominal
3	= Ø 18mm nominal
4 à/à 9	= Autres dimensions / Other dimensions
<p>Type de corps (droit, inversé, à angle droit 90° ou personnalisé) <i>Housing type (straight, reverse, right-angle 90° or customized)</i></p>	
0 à/à 9	

La désignation de type du TQ 9** sera complétée par des caractères, liés par exemple au type de filage du corps du capteur, à la longueur du corps, à la longueur intégrale du câble ou encore à la longueur totale du système.

TQ 9** type designation will be completed by digits for example related to the thread type of sensor body, the body length, the integral cable length or whether the total system length.

CARACTÉRISTIQUES

- Pour le conditionneur de signal IQS 9** , mode de transmission 2 fils (signal de sortie courant):
- Tension maximale : 30 V DC
 - Consommation de courant maximale: 22 mA
 - Consommation de puissance maximale: 0,7 W
- Pour le conditionneur de signal IQS 9** , mode de transmission 3 fils (signal de sortie tension):
- Tension maximale : 30 V DC
 - Consommation de courant maximale: 9,5 mA
 - Consommation de puissance maximale: 0,3 W

RATINGS

- For signal conditioner IQS 9** , 2-wire transmission mode (output current signal):
- Maximum voltage: 30 V DC
 - Maximum current consumption: 22 mA
 - Maximum power consumption: 0,7 W
- For signal conditioner IQS 9** , 3-wire transmission mode (output voltage signal):
- Maximum voltage: 30 V DC
 - Maximum current consumption: 9,5 mA
 - Maximum power consumption: 0,3 W

MARKAGE

Le marquage du produit doit comprendre :

Pour le capteur de proximité TQ 9** :

MEGGITT SA ou VIBRO-METER ou MFR S3960
Adresse : ...
Type : 111-9**-000-*** (1)
N° de fabrication : ...
Année de fabrication : ...
Ⓢ II 3 G
Ex ec IIC T6...T3 Gc (2)
LCIE 21 ATEX 1004 X
-40 °C ≤ T_{amb} ≤ +180 °C

AVERTISSEMENT – NE PAS CONNECTER OU DECONNECTER SOUS TENSION

MARKING

The marking of the product shall include the following :

For the TQ 9** proximity sensor:

MEGGITT SA or VIBRO-METER or MFR S3960
Address : ...
Type : 111-9**-000-*** (1)
Serial number : ...
Year of construction : ...
Ⓢ II 3 G
Ex ec IIC T6...T3 Gc (2)
LCIE 21 ATEX 1004 X
-40 °C ≤ T_{amb} ≤ +180 °C

WARNING – DO NOT CONNECT/DISCONNECT WHEN ENERGIZED

1 Version : 00

LCIE 21 ATEX 1004 X

Issue : 00

Marquage réduit:

MEGGITT SA ou VIBRO-METER ou MFR S3960
Type : 111-9**-000-*** (1)
N° de fabrication : ...
Année de fabrication : ...
Ⓢ II 3 G
Ex ec IIC T6...T3 Gc (2)
LCIE 21 ATEX 1004 X

Pour le conditionneur de signal IQS 9** :

MEGGITT SA ou VIBRO-METER ou MFR S3960
Adresse : ...
Type : 204-9**-000-*** (1)
N° de fabrication : ...
Année de fabrication : ...
Ⓢ II 3 G
Ex ec IIC T6...T5 Gc (2)
LCIE 21 ATEX 1004 X
-40 °C ≤ T_{amb} ≤ +85 °C

Marquage réduit:

MEGGITT SA ou VIBRO-METER ou MFR S3960
Type : 204-9**-000-*** (1)
N° de fabrication : ...
Année de fabrication : ...
Ⓢ II 3 G
Ex ec IIC T6...T5 Gc (2)
LCIE 21 ATEX 1004 X
-40 °C ≤ T_{amb} ≤ +85 °C

(1) Complété selon le type

(2) Voir les conditions particulières d'utilisation

L'appareil doit également comporter le marquage normalement prévu par les normes de construction qui le concernent sous la responsabilité du fabricant.

13 CONDITIONS PARTICULIÈRES D'UTILISATION

a Classe de température de l'équipement en fonction de la gamme de température ambiante de fonctionnement:

Captreur de proximité TQ 9** :

- T6 : for -40 °C ≤ T_{amb} ≤ +75 °C
- T5 : for -40 °C ≤ T_{amb} ≤ +90 °C
- T4 : for -40 °C ≤ T_{amb} ≤ +125 °C
- T3 : for -40 °C ≤ T_{amb} ≤ +180 °C

Conditionneur de signal IQS 9** :

- T6 : for -40 °C ≤ T_{amb} ≤ +70 °C
- T5 : for -40 °C ≤ T_{amb} ≤ +85 °C

b Le conditionneur de signal IQS 9** doit être installé dans une enveloppe fournissant un degré de protection IP54 minimum, conformément à l'EN 60079-0.

Reduced marking:

MEGGITT SA or VIBRO-METER or MFR S3960
Type : 111-9**-000-*** (1)
Serial number : ...
Year of construction : ...
Ⓢ II 3 G
Ex ec IIC T6...T3 Gc (2)
LCIE 21 ATEX 1004 X

For the IQS 9** signal conditioner:

MEGGITT SA or VIBRO-METER or MFR S3960
Address : ...
Type : 204-9**-000-*** (1)
Serial number : ...
Year of construction : ...
Ⓢ II 3 G
Ex ec IIC T6...T5 Gc (2)
LCIE 21 ATEX 1004 X
-40 °C ≤ T_{amb} ≤ +85 °C

Reduced marking:

MEGGITT SA or VIBRO-METER or MFR S3960
Type : 204-9**-000-*** (1)
Serial number : ...
Year of construction : ...
Ⓢ II 3 G
Ex ec IIC T6...T5 Gc (2)
LCIE 21 ATEX 1004 X
-40 °C ≤ T_{amb} ≤ +85 °C

(1) Completed as per the type

(2) See the specific conditions of use

The product shall also bear the usual marking required by the product standards applying to such equipment under the manufacturer responsibility.

SPECIFIC CONDITIONS OF USE

Temperature class of the equipment depending on the ambient operating temperature range:

TQ 9** Proximity sensor:

- T6 : for -40 °C ≤ T_{amb} ≤ +75 °C
- T5 : for -40 °C ≤ T_{amb} ≤ +90 °C
- T4 : for -40 °C ≤ T_{amb} ≤ +125 °C
- T3 : for -40 °C ≤ T_{amb} ≤ +180 °C

IQS 9** Signal conditioner:

- T6 : for -40 °C ≤ T_{amb} ≤ +70 °C
- T5 : for -40 °C ≤ T_{amb} ≤ +85 °C

The IQS 9** signal conditioner shall be installed in an enclosure that provides a degree of protection of at least IP54, according to EN 60079-0.

ATTESTATION D'EXAMEN DE TYPE - ANNEXE TYPE EXAMINATION CERTIFICATE - SCHEDULE



1 Version : 00 **LCIE 21 ATEX 1004 X** Issue : 00

- c Le matériel doit être utilisé dans une zone assurant au moins un degré de pollution 2 tel que défini dans l'IEC 60664-1.
The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- d La protection contre les transitoires doit être fournie à un niveau défini ne dépassant pas 140 % de la valeur de crête de la tension assignée aux bornes d'alimentation vers le conditionneur de signal IQS 9**.
Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the IQS 9** signal conditioner.
- e Les connexions ne doivent pas être connectées ou déconnectées sous tension.
Connections shall not be connected or disconnected when energized.
- f La tête du capteur doit être protégée contre tout risque de danger mécanique.
The sensor head shall be protected against any risk of mechanical danger.
- g Un degré de protection IP54 minimum, conformément à la norme EN 60079-0, doit être garanti au point de raccordement du capteur de proximité TQ 9** avec le câble de rallonge EA 9**.
A minimum degree of protection IP54, in accordance with EN 60079-0, shall be ensured at the point of connection of the proximity sensor TQ 9** with the EA 9** extension cable.
- h Il est de la responsabilité de l'utilisateur d'assurer une continuité de terre adéquate du corps métallique du capteur via le dispositif de montage.
It is the user's responsibility to provide adequate earth continuity of the sensor's metallic body via the mounting arrangement.
- i L'équipement doit être installé conformément au manuel d'instructions fourni par le fabricant.
The equipment shall be installed according to the instruction manual provided by the manufacturer.

14 EXIGENCES ESSENTIELLES DE SANTE ET DE SECURITE

Couvertes par les normes listées au point 8.

15 DOCUMENTS DESCRIPTIFS

N°	Description	Référence	Rev.	Date	Page(s)
1.	Dossier technique / Technical file	DT-1077	00	2021-03-08	72
2.	Manuel d'installation / Installation manual	MAPROX9xxIE	--	--	--

16 INFORMATIONS COMPLEMENTAIRES

Essais individuels
Chaque exemplaire du capteur TQ 9** doit être soumis à un essai de rigidité diélectrique conformément à la clause 7.1 de l'EN 60079-7 sous 500 V eff.
Each sample of the TQ 9** sensor shall be subjected to a dielectric strength test according to clause 7.1 of EN 60079-7 under 500 V r.m.s.

17 DETAILS DES MODIFICATIONS DE L'ATTESTATION

Version 00 : Certification initiale selon EN IEC 60079-0:2018 et EN 60079-7:2015 + A1:2018.
Issue 00 : Initial certification according to EN IEC 60079-0:2018 and EN 60079-7:2015 + A1:2018.

DETAILS OF CERTIFICATE CHANGES

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CERT-ATEX-FORM 05 Rev. 05

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LCIE

Laboratoire Central des Industries Electriques
Une société de Bureau Veritas

33 Avenue du Général Leclerc

92260 Fontenay-aux-Roses
FRANCE

WWW.LCIE.FR