



MEGGITT

EX CERTIFICATE – KGS

vibro-meter®

**KGS 24-GA4BO-0435X
for
TQ9xx proximity sensors**



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.

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Parker Meggitt (Meggitt SA) office

Parker Meggitt, Motion, Power & Sensing Division (MPSD).

Meggitt SA, Route de Moncor 4, Case postale, 1701 Fribourg, Switzerland.

www.meggittsensing.com/energy

www.meggitt.com

www.parker.com

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제24-0435호



안전인증서

MEGGITT SA

Route de Moncor 4 1752 Villars-sur-Glane SWITZERLAND

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

품 목

TQ 9** Proximity sensor

형식·모델 / 용량·등급 / 인증번호

형식·모델	용량·등급	인증번호
111-9**-000-*** (동일형식 일람표 참고)	Max. 30 VDC, 22mA, 0.7W Ex ec IIC T6... T3 Gc	24-GA4BO-0435X

인증기준

방호장치 안전인증 고시(고용노동부고시 제2021-22호)

인증조건

-40 °C ≤ Tamb ≤ +180 °C, 뒷면참조

2024년 07월 08일

한국가스안전공사 사장



한국가스안전공사



인 증 조 건

1. 제조공장:

Route de Moncor 4, 1752 Villars-sur-Glane, Switzerland에 위치한 Meggitt S.A에서 생산한 제품 중 아래 인증범위의 제품에 한함.

2. 제품개요

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 cover 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.

3. 인증범위 : 본 인증서는 아래의 형식번호에 한하여 유효함.

품목 명 : TQ 9** proximity sensor

모델 명 : 111-9**-000-***

4. 안전한 사용을 위한 조건

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

T6 : for $-40\text{ }^{\circ}\text{C} \leq T_{amb} \leq +75\text{ }^{\circ}\text{C}$

T5 : for $-40\text{ }^{\circ}\text{C} \leq T_{amb} \leq +90\text{ }^{\circ}\text{C}$

T4 : for $-40\text{ }^{\circ}\text{C} \leq T_{amb} \leq +125\text{ }^{\circ}\text{C}$

T3 : for $-40\text{ }^{\circ}\text{C} \leq T_{amb} \leq +180\text{ }^{\circ}\text{C}$

2. The TQ 9*** signal conditioner shall be installed in a certified enclosure that provides a degree of protection of at least IP54 according to IEC 60079-0.

3. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1

4. Connections shall not be connected or disconnected when energized.

5. The sensor head shall be protected against any risk of mechanical danger.

6. A minimum degree of protection IP 54, in accordance with IEC 60079-0, shall be ensure at the point of connection of the proximity sensor TQ 9*** with the EA 9** extension cable

7. It is the user's responsibility to provide adequate earth continuity of the sensor body via the mounting arrangement.

8. The equipment shall be installed according to the instruction manual provided by the manufacturer

5. 인증(변경)사항

6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수.

- Routine test :

dielectric strength test according to clause 7.1 of IEC 60079-7 under 500 V r.m.s.

- IECEx LCIE 21.0005X issue No.1 와 함께 사용할 것.



동 일 형 식 일 람 표

사업장명	Meggitt SA	개정일자 및 번호	1	인증번호	24-GA4BO-0435X		
형식 및 모델번호		동일형식 항목 및 내역					
111	9	* (Housing type)	* (Dimension of the measuremen t element)	000	** (Cable, Cable protection and protection sheath types)	* (Minor modification number)	비고
		0 to 9	1= ∅ 5mm nominal 2= ∅ 8 mm nominal 3= ∅ 18mm nominal 4 to 9 = Other dimension s		00 to 99	0 to 9	

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