



ISO 9001

Electronic Ignition

TQG2...



Electronic ignition module for igniting air / gas mixtures in gas-fired appliances.

The TQG2... and this data sheet are intended for use by OEMs that integrate the electronic ignition in their products!

Use

The typical field of use includes gas-fired burners such as atmospheric gas burners with or without auxiliary fan, forced draught gas burners, etc.

Type summary

TQG21.A8

When ordering, please give type reference.

Accessories

On demand

Ignition cable **AGL11.A98**

Technical data

Input voltage	DC 24 V ±15 %	Mounting position	optional
Input current	50 mA (typically)	Degree of protection to IEC 529	IP00
		After mounting (mandatory)	IP40
Output voltage (peak)		Degree of radio interference	class A, to VDE 0871
- No-load operation	35 kV		
- Load of 3 pF	≥ 23 kV	No-load operation	30 s
- Load of 30 pF	≥ 17 kV		
Spark repetition frequency	16 Hz ±4 Hz	Connections	
Energy	3 mJ, 2 kΩ 110 nF (at UNom and 20°C ambient temperature)	- High voltage (1,2)	quick connectors to DIN 46244 -A2.8-0.8-MS-gal Sn
Spark path	< 3 mm	- Input voltage	quick connectors to DIN 46244 -A6.3-0.8-MS-gal Sn
Length of ignition cable	< 0.6 m	Weight	0.1 kg

Ignition cable must be laid separately!

Environmental conditions	
- Transport	IEC 721-3-2
Climatic conditions	class 2K2
Temperature range	-20...+70°C
Humidity	< 95 % r.h.
Mechanical conditions	class 2M2
- Operation	IEC 721-3-3
Climatic conditions	class 3K3
Temperature range	-15...+70°C
Humidity	< 95 % r.h.

Condensation, formation of ice and ingress of water are not permitted.

General notes

Electric ignition sparks generate pulses of high frequency which may cause radio and television interference. The high voltage cable running to the ignition electrode then acts as a transmitter. For this reason, the electronic ignition module (TQG2...) uses appropriate filters which prevent high frequency pulses from being passed to other terminals, thus complying with international regulations for radio interference protection. High frequency energy also has a certain capacitance and inductance, which must be considered when laying the cables.

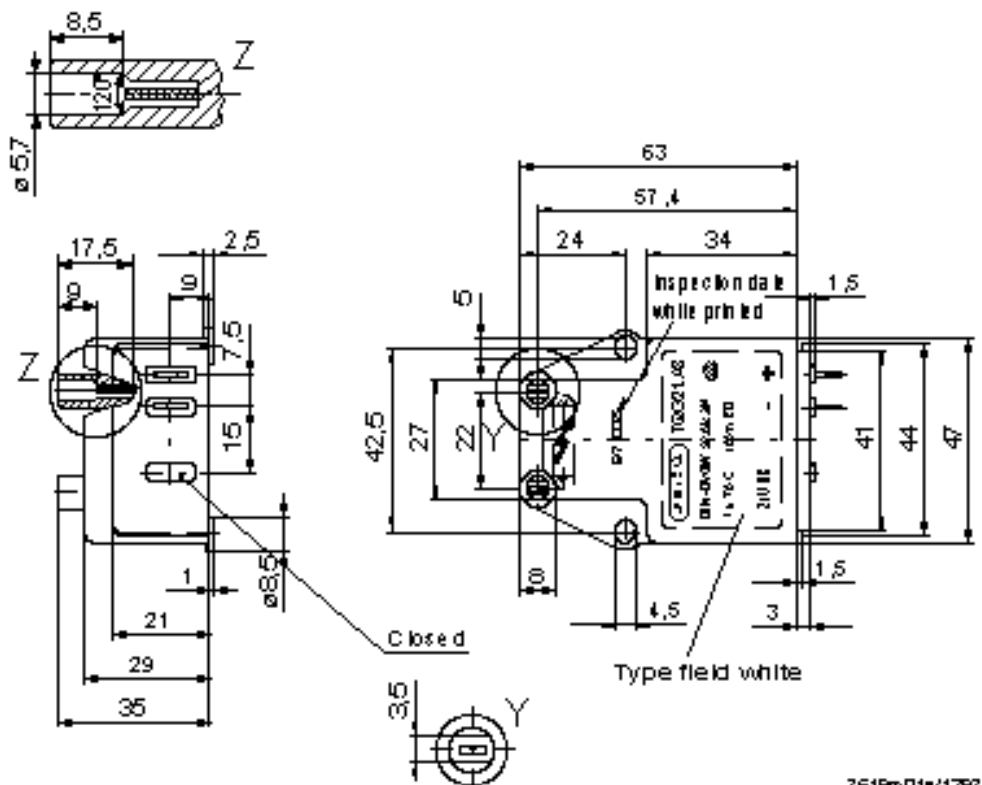
The ignition cable should be as short as possible, reaching the ignition electrode with no loops. It must never be run parallel or very close to other electric cables, because in that case, the filtering function of the TQG2... will no longer be sufficient.

Warning notes

- In the geographical areas where DIN standards are in use, the installation must be in compliance with VDE requirements, particularly with the standards DIN / VDE 0100 and 0722!
- All regulations and standards applicable to the particular application must be observed!
- Installation and commissioning work must always be carried out by qualified personnel!
- Condensation and ingress of humidity must be avoided!
- The electrical wiring must be made in compliance with national and local standards and regulations!
- Ignition cables must always be laid separately, maintaining the greatest possible distance to all other cables!
- Check wiring carefully before putting the burner control into operation!
- The burner control must be completely isolated from the mains before performing any work on the TQG2...!
- Check all safety functions when putting the burner control into operation or after performing service work!
- Ensure protection against electric shock on the unit and on all electrical connections through appropriate mounting!
- Electromagnetic compatibility must be checked from an application point of view!

Dimensions

Dimensions in mm



7619m01e/1297