# **SIEMENS**



## **Electronic Ignition Module**

**TQG1...** 



Electronic ignition module for single-pole ignition of atmospheric gas burners.

The TQG1... and this data sheet are intended for use by OEMs, which integrate the electronic ignition module in their products.

### Mechanical design

The casing is made of impact-proof and heat-resistant plastic. Due to its compact design, the electronic ignition module can be accommodated under the AGK11 plugin base of the respective burner control, using two fixing screws.



The ignition cable is supplied by the burner manufacturer.

## **Ordering**

When ordering, please give the type reference:

**TQG11A27** for 170 mm cable length **TQG12A27** for 1500 mm cable length

Also refer to «Dimensions»!

#### **Technical data**

Mains voltageAC 220 V -15 %AC 240 V +10 %		Energy per ignition spark	3.8 mJ	
Mains frequency	5060 Hz ±6 %	Output voltage	14 kV $\rightarrow$ peak value	
Length of ignition cable  1) The ability to ignite diminis	,	Nominal current	16 mA	
cable length increases.  Longer ignition cables can be used.		Nominal power consumpt	tion 3.5 VA	
Proper ignition on the burner must also be checked under extreme conditions, such as		Output current	150 mA $\rightarrow$ peak value	
undervoltage, etc.		Energy per s	190 mJ	
Environmental conditions		Spark ignition frequency	50 Hz	
Transport	IEC 721-3-2			
Climatic conditions	class 2K2	Cycle time	3 min.	
Temperature range	-20+60 °C			
Proper ignition ensured down to -30 °C!		On time ratio	33 %	
Humidity	< 95 % r.h.			
Mechanical conditions	class 2M2	On time	max. 1 min	
Operation	IEC 721-3-3			
Climatic conditions	class 3K5	Spark path	24 mm	
Temperature range	-20+60 °C			
Humidity	< 95 % r.h.	Degree of protection	IP 40	
Condensation, formation of ice and ingress of				
water are not permitted!		Weight	approx. 125 g	

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## Warning notes



To avoid injury to persons, damage to property and the environment, the following warning notes should be observed!

#### Do not open, interfere with or modify the module!

- Before performing any wiring changes in the connection area of the TQG1..., completely isolate the burner control from the mains supply!
- Ensure protection electric shock through appropriate mounting of the TQG1... and all electrical connections!
- Check the wiring and all safety functions of the TQG1... with the burner control!

## **Mounting notes**

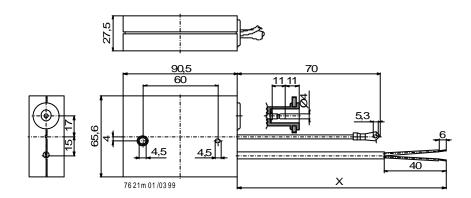
- Observe the relevant national safety regulations!
- Locate and adjust the ignition and detector electrodes such that the ignition spark cannot arc over to the detector electrode!
  - → Risk of electric overload of the connected burner control!

#### Installation notes

- Installation and commissioning work may only be carried out by qualified staff!
- Laying of ignition cables:
  - Always separately
  - Observing the greatest possible distance to the unit and other cables
  - As short as possible
  - No loops!

#### **Dimensions**

DImensions in mm



	Χ
TQG11A27	170 mm
TQG12A27	1500 mm

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