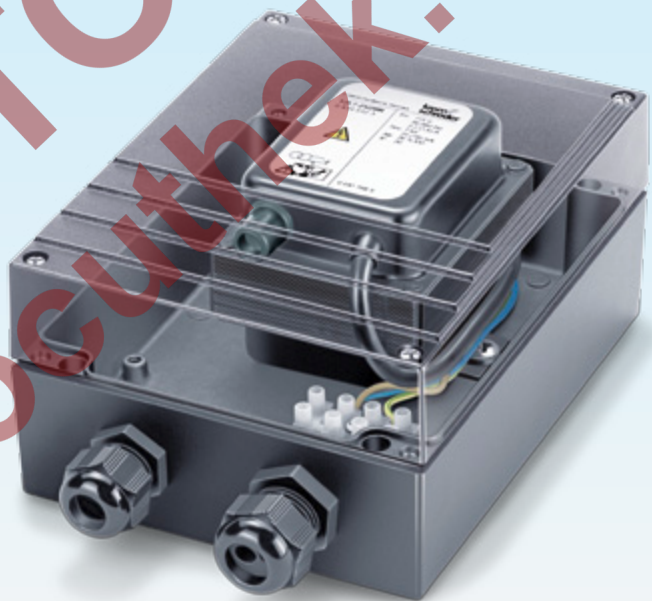


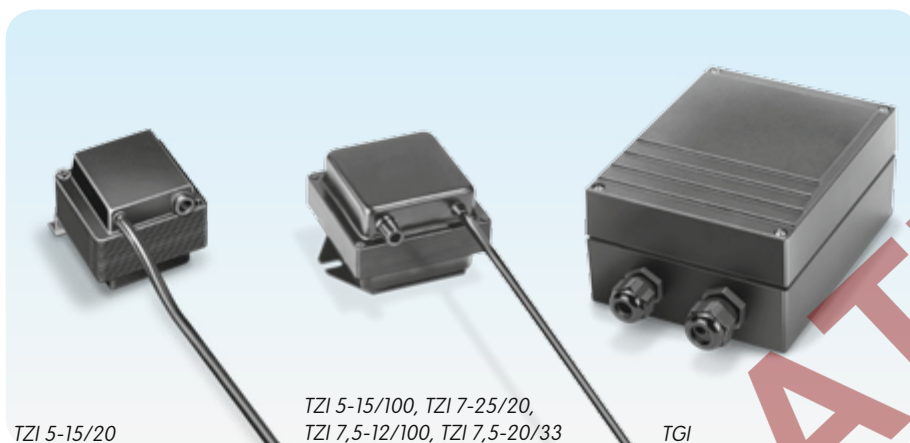
Ignition transformers TZI, TGI

Product brochure · GB

8 Edition 02.11



- Electrical ignition of gas burners
- Ignition and burner control with a single electrode possible
- For installation in a control cabinet or wall mounting
- Complying with EN 61558-2-3
- TZI 7,5-20/33R complies with CSA



Application

Ignition transformers TZI and TGI are designed for high-voltage spark ignition of gas burners and gas-ignited or directly ignited oil burners. The ignition transformers can also be used on burners with single-electrode operation; the ignition current and ionization current flow over a common electrode. Ignition transformer TZI fulfils the requirements for enclosure IP 20. It is suitable for installation in a control cabinet. Ignition transformer TGI in its die-cast aluminium housing meets the requirements for enclosure IP 65. It is suitable for on-site mounting near to the burner.



Bogie hearth forging furnace in the metallurgical industry

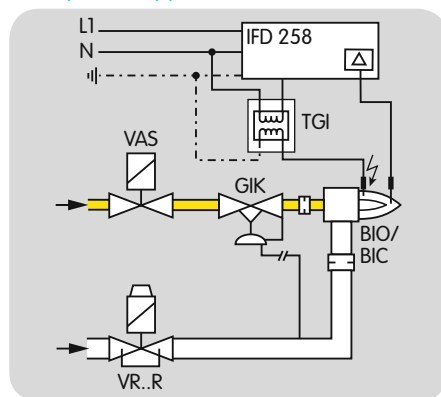


Intermittent shuttle kiln in the ceramics industry



Walking beam furnace with overhead firing

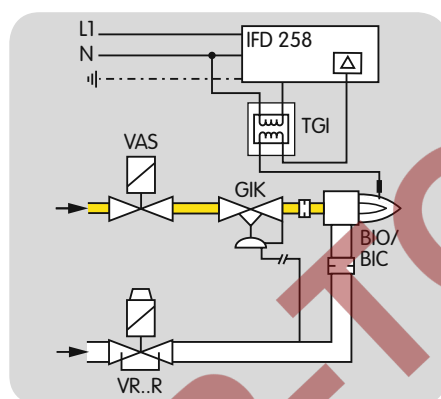
Examples of application



Double-electrode operation

Ignition using ignition electrode

Ignition transformer TGI is supplied with voltage via the automatic burner control unit IFD 258. The ignition transformer generates a high voltage. This high voltage creates ignition sparks between the ignition electrode and burner ground. After the burner start, a current flows via the ionization electrode for flame control.



Single-electrode operation

Ignition using an ignition and ionization electrode

After burner start, a flame control current flows via the same electrode that is also used for ignition.

Type code

Code	Description
TZI	Ignition transformer
TGI	Ignition transformer, enclosed
5	High voltage: 5 kV
7	7 kV
7,5	7.5 kV
-12	Output current: 12 mA at 50 Hz (9 mA at 60 Hz)
-15	15 mA at 50 Hz (11 mA at 60 Hz)
-20	20 mA at 50 Hz (15 mA at 60 Hz)
-25	25 mA at 50 Hz (18 mA at 60 Hz)
/20	Duty cycle: 20%
/33	33%
/100	100%
R	Mains voltage: 115 V
W	230 V

Technical data

Type	Input		Output		Duty cycle**	Enclosure	Weight kg
	V AC	Hz*	A*	V mA*			
TZI 5-15/20W	230	50 (60)	0.5 (0.35)	5000 15 (11)	20	IP 20	0.9
TZI 5-15/100W	230	50 (60)	0.45 (0.35)	5000 15 (11)	100	IP 20	1.5
TZI 7-25/20W	230	50 (60)	1.1 (0.8)	7000 25 (18)	20	IP 20	1.5
TZI 7,5-12/100W	230	50 (60)	0.6 (0.45)	7500 12 (9)	100	IP 20	2
TZI 7,5-20/33W	230	50 (60)	0.9 (0.7)	7500 20 (15)	33	IP 20	2
TZI 5-15/20R	115	50 (60)	1 (0.7)	5000 15 (11)	20	IP 20	0.9
TZI 5-15/100R	115	50 (60)	0.9 (0.7)	5000 15 (11)	100	IP 20	1.5
TZI 7-25/20R	115	50 (60)	2.2 (1.6)	7000 25 (18)	20	IP 20	1.5
TZI 7,5-12/100R	115	50 (60)	1.2 (0.9)	7500 12 (9)	100	IP 20	2
TZI 7,5-20/33R	115	50 (60)	1.8 (1.35)	7500 20 (15)	33	IP 20	2
TGI 5-15/100W	230	50 (60)	0.45 (0.35)	5000 15 (11)	100	IP 65	3
TGI 7-25/20W	230	50 (60)	1.1 (0.8)	7000 25 (18)	20	IP 65	3
TGI 7,5-12/100W	230	50 (60)	0.6 (0.45)	7500 12 (9)	100	IP 65	3.5
TGI 7,5-20/33W	230	50 (60)	0.9 (0.7)	7500 20 (15)	33	IP 65	3.5
TGI 5-15/100R	115	50 (60)	0.9 (0.7)	5000 15 (11)	100	IP 65	3
TGI 7-25/20R	115	50 (60)	2.2 (1.6)	7000 25 (18)	20	IP 65	3
TGI 7,5-12/100R	115	50 (60)	1.2 (0.9)	7500 12 (9)	100	IP 65	3.5
TGI 7,5-20/33R	115	50 (60)	1.8 (1.35)	7500 20 (15)	33	IP 65	3.5

* Values in brackets apply to 60 Hz.

** For temperatures between -20 and +35°C.

Ambient temperature: -20 to +60°C.



Detailed information on this product



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