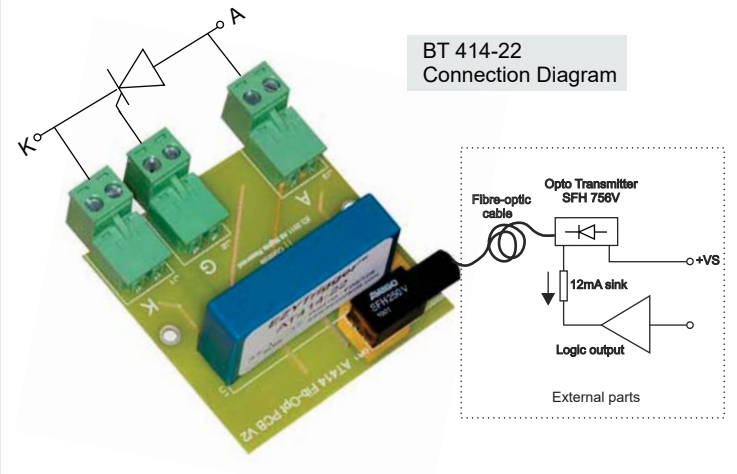
EZYTrigger™

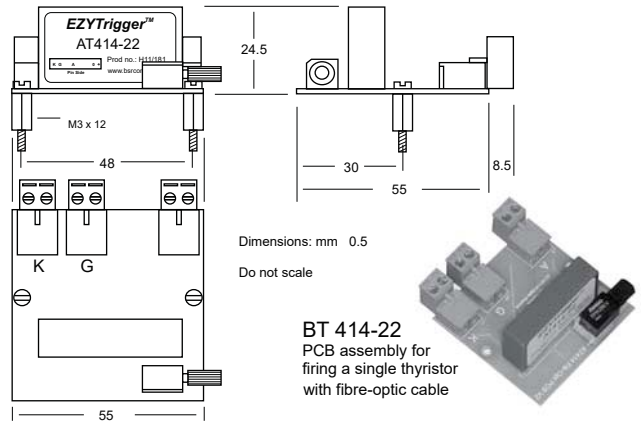
Active trigger units for firing Power Thyristors

Applications:

- **PCB Assembly with AT414-22 EZYTrigger and fibre-optic receiver diode**
- **Fibre-optic control of a single thyristor tested up to 25m fibre-optic cable**
- **Fibre-optic control of any thyristor type including amplifying gate devices**



Units tested with 25m fibre-optic cable (1mm plastic) transmitter to receiver.



Absolute Maximum Ratings

Parameter	Symbol	EZYTrigger Type BT414 – 22
Peak voltage – positive and negative	**Vp**	**2200 V**
Nominal mains voltage	**Vm**	**690 V**
Continuous DC voltage	**V=**	**690 V**
Turn-on delay for gate current >1A	**tgd**	**5 µs**
Input-Output isolation	**Vi**	**6000Vrms 50Hz 1min VDE0884**
Input-Output transient immunity	**(dv/dt)c**	**5000 V/µs**
Device transient immunity	**(dv/dt)d**	**2000 V/µs**
Ambient temperature range	**Ta**	**-20°C to +85°C**

Technical Data at 25°C

200mA gate current threshold	**Vgtl**		**16 V**
1.8A gate current threshold	**Vgth**		**36 V**
Gate current rise time ⇨ anode voltage ⇨ 100V	**(di/dt)g**		**1.2 A/µs**
⇨ 200V	**(di/dt)g**		**2 A/µs**
⇨ 400V	**(di/dt)g**		**2.5 A/µs**
⇨ 800V	**(di/dt)g**		**3 A/µs**
⇨ 1200V	**(di/dt)g**		**4 A/µs**
Peak gate current	**Ip**		**1.8 A**
Anode-cathoden current at peak voltage Vp	**In**		**5.8 mA**
Maximum off-state gate current	**Io**		**2 µA**
Minimum control current	**Icm**		**7 mA**
Recommended control current	**Ic**		**12 mA**
Control input voltage drop at 12mA gate current	**Vin**		**Typ 1.2 < 1.5V**
Maximum reverse control input voltage	**Vinr**		**6 V**
Turn-on delay time at Icontrol = 12mA	**tdi**		**25 µs**

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