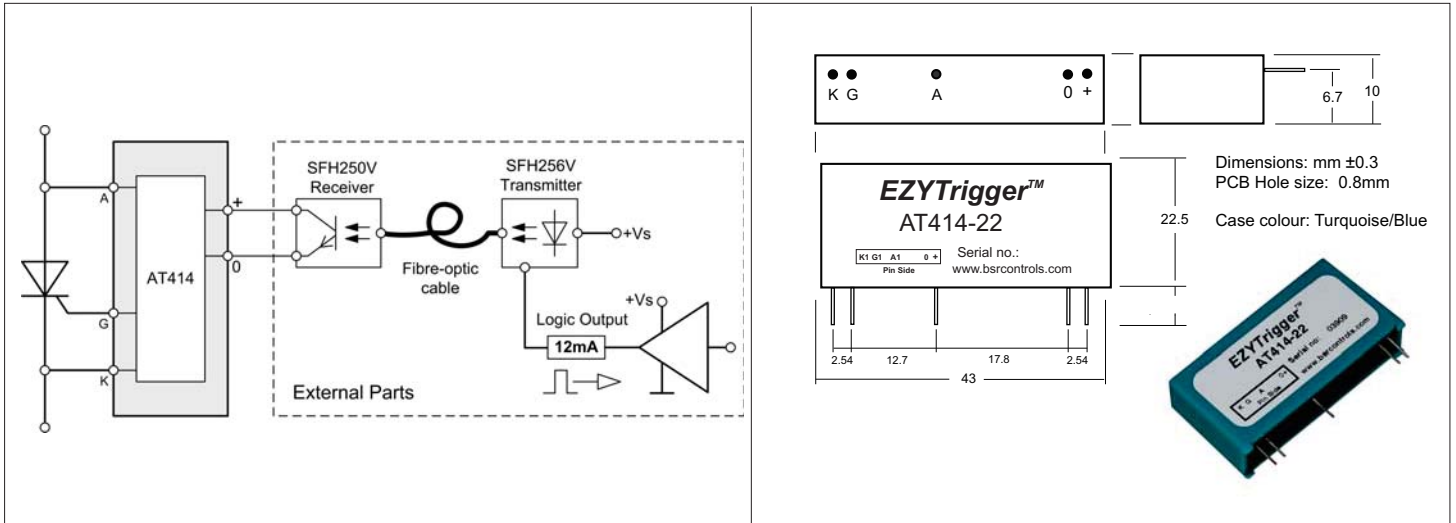


Applications:

- Trigger signal input designed for optical receiver device
- Optical control of a single thyristor with up to 25m fibre-optic cable
- Optical control of any thyristor type including amplifying gate devices



Absolute Maximum Ratings

EZYTrigger Type

Parameter	Symbol	AT414 – 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