

# TS01

## Turn Indicator Trigger ECU

### Installation & Operation Guide

## 1 Wire Connections

Wire Colour	Vehicle Connection
Black	Power Supply Negative (0V)
Red	Power Supply Positive +12/24Vdc, fused and non-permanent
Pink	Pulsed Input 1
Green	Pulsed Input 2
Purple	Constant Output +12/24Vdc <b>Warning:</b> Maximum output current is <b>1.2A</b> . Use a relay if higher current from switch output for connected devices is required.

## 2 Normal Operation

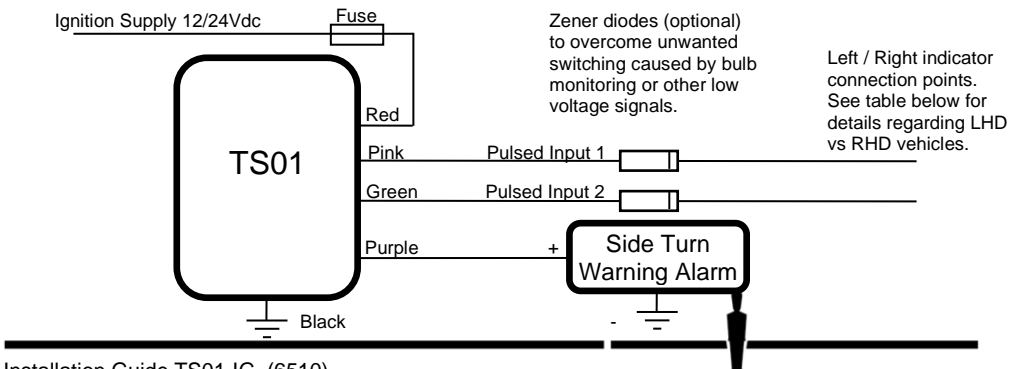
### Constant Output from Pulsing Indicator Signal

When a pulsed indicator signal (+12/24Vdc) is applied to Pulsed Input 1, the Constant Output will be turned ON to power the alarm or other connected device.

If a pulsed indicator signal (+12/24Vdc) is applied to Pulsed Input 2, the Constant Output will be turned OFF. See Truth table below for detailed operation:

TS01 Output Truth Table			
Pulsed Input 1 (12/24Vdc)	Pulsed Input 2 (12/24Vdc)	Constant Output (12/24Vdc @ 1.2A Max)	LED Status
ON	OFF	ON	Red
OFF	ON	OFF	Green
ON	ON	OFF	Green
OFF	OFF	OFF	Green

## 3 Connection Diagram



<b>Wiring Connections for TS01 in Sidescan Application</b>		
Wire Colour	Vehicle Connection Point	
	Right Hand Drive Vehicle	Left Hand Drive Vehicle
Red	12/24Vdc	12/24Vdc
Black	0Vdc	0Vdc
Pink	Left Indicator	Right Indicator
Green	Right Indicator	Left Indicator
Purple	Output	Output

## 4 Specifications

Max. switched power output current	1.2A
Operating voltage range	10Vdc to 32Vdc
Input current	Typ. <0.03A (Switch Power Output off) Max. <1.8A (Switch Power Output on state)
Polarity	Negative ground
Operating temperature range	-40°C to +85°C
Dimensions (without connector)	64mm x 44mm x 16mm
Weight (including connector tail)	approx. 35g
Vehicle mounting	Housing with opening lugs for fixing e.g. with a cable tie
Plug with cable tail, cable length	300mm +/- 20mm

## 5 Approvals

CE, ECE Regulation No. 10 ("E-marking"), FCC



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any change or modifications not expressly approved by the responsible party responsible for compliance could void the user's authority to operate the equipment.

Specifications subject to change. Sous réserve de modifications techniques. Änderungen der technischen Daten vorbehalten. Specifiche soggette a variazioni. Las especificaciones están sujetas a cambios. Wijzigingen in specificaties voorbehouden. As especificações estão sujeitas a alterações. Спецификация может изменяться.

## 6 Disclaimer

Original Equipment Manufacturer bodybuilder guide or aftermarket installation guide must be followed when installing this product. Failure to comply with this may invalidate the vehicles warranty.

Product must be protected by adequately rated fuse.

## 7 Substitution for Brigade TS-001ECU

The TS01 may be used in place of Brigade's TS-001ECU by following the below connection guide:

Signal	TS-001ECU Wire	TS01 Wire
Pulsed Input 1	Blue	Pink
Pulsed Input 2	White	Green
Constant Output +12/24Vdc	Yellow	Purple
Power (+12/24Vdc)	Red	Red
GND	Black	Black

