april systems design Ltd

www.aprilsystems.net

Gear Change Cluster

Yamaha TZ125 / TZ250 / CDi coil drive input

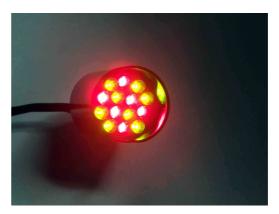
Overview

A Red and Green 'change gear now' indicator with 16 rpm settings selected by a switch. Units with different ranges of RPM are available to suit different fuels or riders etc, each has 16 settings in 100RPM steps.

Operation

On the RPM rising above the RPM point selected the Cluster is illuminated, as the RPM falls 100 rpm below the set point the Cluster will extinguish





Connections

In the noise cone to the tachometer wiring:

Black to taco black.

Brown to taco brown

Orange to taco Orange

Mount the Cluster in the dashboard foam, the rear of the cluster has a M3 threaded hole, the control unit has a self adhesive Velcro pad to allow mounting.

Range Selection

See tables below and specify range on ordering, if a different range or rpm step is required please ask.

Specifications:

Voltage range
Input Current illuminated
Input Current not illuminated
Ignition trigger current
Ignition trigger voltage
Cluster size
Viewing angle
Indicators
Brightness
Temperature range
Weight
RPM step size
RPM Hysteresis

11V to 18V
50mA nominal, 100mA max
2mA nominal, 10mA max
300uA
- 100V
26mm
40 degrees
14, 6 red and 8 green
2000 - 4000 mcd
-10degC to +60degC
Approx 80g
100RPM
100RPM

TYPE : 11,500 - 13,000	Switch Position 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Illumination RPM 11,500 11,600 11,700 11,800 11,900 12,000 12,100 12,200 12,300 12,400 12,500 12,600 12,700 12,800 12,900 13,000
TYPE : 12,000 - 13,500	Switch Position 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Illumination RPM 12,000 12,100 12,200 12,300 12,400 12,500 12,600 12,700 12,800 12,900 13,000 13,100 13,200 13,300 13,400 13,500
TYPE : 12,500 - 14,000	Switch Position 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Illumination RPM 12,500 12,600 12,700 12,800 12,900 13,000 13,100 13,200 13,300 13,400 13,500 13,600 13,700 13,800 13,900 14,000

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Special order : 12,800 - 13,300	Switch Position	Illumination RPM
	0	11,800
	1	11,900
	2	12,000
	3	12,100
	4	12,200
	5	12,300
	6	12,400
	7	12,500
	8	12,600
	9	12,700
	10	12,800
	11	12,900
	12	13,000
	13	13,100
	14	13,200
	15	13,300
	14	