E1048 DIGITAL SPEED SWITCH 10V – 30V

This Unit was designed to switch selected equipment On at a specific Road Speed.

The switching on speed is set by selecting a combination of up to 6 switches, giving 64 options between the limits of 2.5km/h (1.6mph) and 107.2km/h (66.6mph).

The switching on speed can be Factory set or adjusted during installation.

The output on this unit is normally off and switches on at the set speed, it is capable of switching 10A.

The tri state Override input can control the output as follows:
Open = normal operation
Switch to positive = output on
Switch to ground = output off



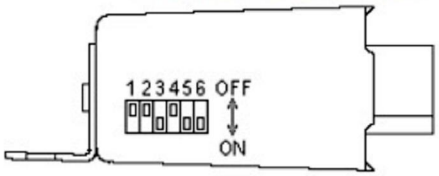
SPECIFICATION

Supply Voltage		10 to 30V
Supply Current		< 5mA
Output Current		10A
Switch On Delay (Speed Increasing)		1 second
Switch Off Delay (Speed Decreasing)		< 12ms
Switch point Setting (See Table)		6 Way Switch (64 Combinations)
Pulse Input		V low < 1.5V V high > 5.5V Pulse Duration > 1.5ms
Override Input Resistance		> 5kΩ to ground
Override Input	Open	Operation normal
	< 1V	Output Off
	> 4.5V	Output On
Case Style		Din Pack, Vertical bracket
Dimensions		94 x 61 x 45 mm
Weight		85g
Fixing		1 x 6.3mm Hole
Case Material		Black ABS
Bracket Material		Aluminium Alloy

Note: All road speeds assume 4 pulses per metre

EURO MANUFACTURING AND MARKETING LTD
Euro Works, 11 – 13 High Street, Wem, Shropshire, SY4 5AA
Tel: 01939 235073 Fax: 01939 235074
Email: sales@eurogroup-gb.com or sales@battery-management-voltage-converter.com
Web: www.eurogroup-gb.com or www.battery-management-voltage-converter.com

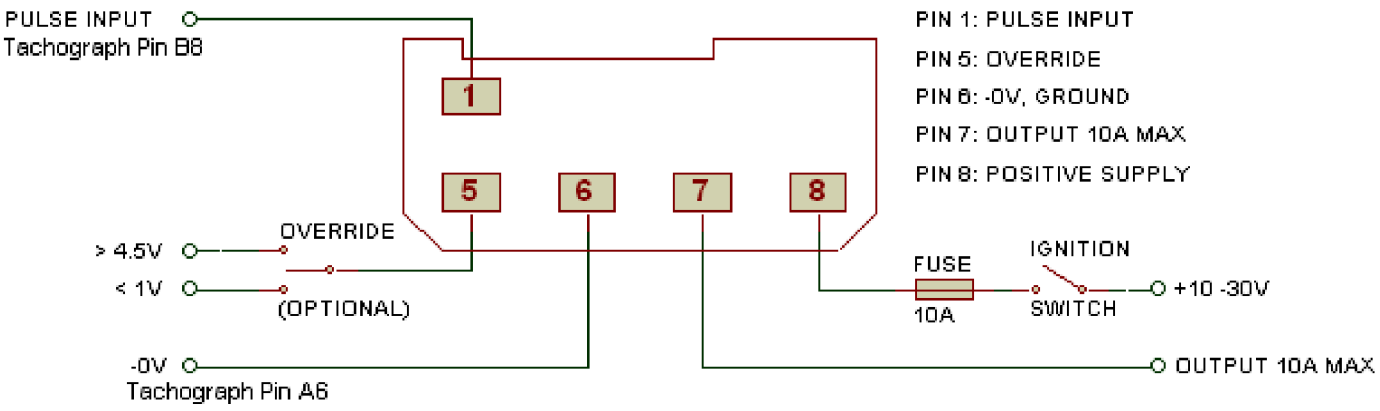
SETTING INFORMATION



Example shows Speed Switch set to switch on at 23.7km/h (14.7mp/h)

Switches	Speed km / h	Speed / mph	Frequency Off / Hz	Switches	Speed km / h	Speed / mph	Frequency Off / Hz
none	2.5	1.6	2.776	1	57.0	35.4	63.34
6	4.9	3.1	5.482	1,6	59.0	36.7	65.57
5	7.0	4.4	7.830	1,5	60.9	37.8	67.65
5,6	9.4	5.8	10.39	1,5,6	62.8	39.0	69.77
4	11.6	7.2	12.88	1,4	64.9	40.3	72.07
4,6	13.8	8.6	15.38	1,4,6	66.8	41.5	74.24
4,5	15.9	9.9	17.62	1,4,5	68.6	42.7	76.27
4,5,6	18.1	11.2	20.09	1,4,5,6	70.5	43.8	78.34
3	17.3	10.8	19.27	1,3	70.0	43.5	77.73
3,6	19.6	12.2	21.81	1,3,6	71.9	44.7	79.87
3,5	21.6	13.4	23.96	1,3,5	73.8	45.8	81.95
3,5,6	23.7	14.7	26.36	1,3,5,6	75.6	47.0	83.97
3,4	25.9	16.1	28.75	1,3,4	77.6	48.2	86.21
3,4,6	28.0	17.4	31.14	1,3,4,6	79.4	49.4	88.26
3,4,5	30.0	18.6	33.32	1,3,4,5	81.2	50.5	90.27
3,4,5,6	32.1	19.9	35.67	1,3,4,5,6	83.0	51.6	92.24
2	31.5	19.6	34.98	1,2	82.5	51.3	91.68
2,6	33.6	20.9	37.32	1,2,6	84.4	52.4	93.77
2,5	35.5	22.1	39.47	1,2,5	86.2	53.6	95.82
2,5,6	37.6	23.4	41.82	1,2,5,6	88.0	54.7	97.75
2,4	39.7	24.7	44.14	1,2,4	90.0	55.9	99.95
2,4,6	41.8	26.0	46.45	1,2,4,6	91.8	57.1	102.03
2,4,5	43.7	27.2	48.55	1,2,4,5	93.6	58.1	103.97
2,4,5,6	45.7	28.4	50.82	1,2,4,5,6	95.3	59.2	105.83
2,3	45.1	28.0	50.10	1,2,3	94.7	58.9	105.27
2,3,6	47.2	29.3	52.41	1,2,3,6	96.6	60.0	107.30
2,3,5	47.2	29.4	52.50	1,2,3,5	98.4	61.1	109.33
2,3,5,6	51.1	31.7	56.73	1,2,3,5,6	100.1	62.2	111.20
2,3,4	53.1	33.0	59.02	1,2,3,4	102.0	63.4	113.33
2,3,4,6	55.1	34.3	61.25	1,2,3,4,6	103.8	64.5	115.33
2,3,4,5	57.0	35.4	63.30	1,2,3,4,5	105.6	65.6	117.30
2,3,4,5,6	58.9	36.6	65.47	1,2,3,4,5,6	107.2	66.6	119.07

WIRING INFORMATION



Note: Pin 1 and Pin 6 should be wired directly to the appropriate Pins on the Tachograph as indicated.

For example on the DTCO 1381 Tachograph:

- **Pin 1 of Speed Switch to Tachograph Plug B Pin B8**
- **Pin 6 of Speed Switch to Tachograph Plug A Pin A6**