E1047 DIGITAL SPEED SWITCH 10V – 30V

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

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

The output on this unit is normally on and switches off 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 off
Switch to ground = output on

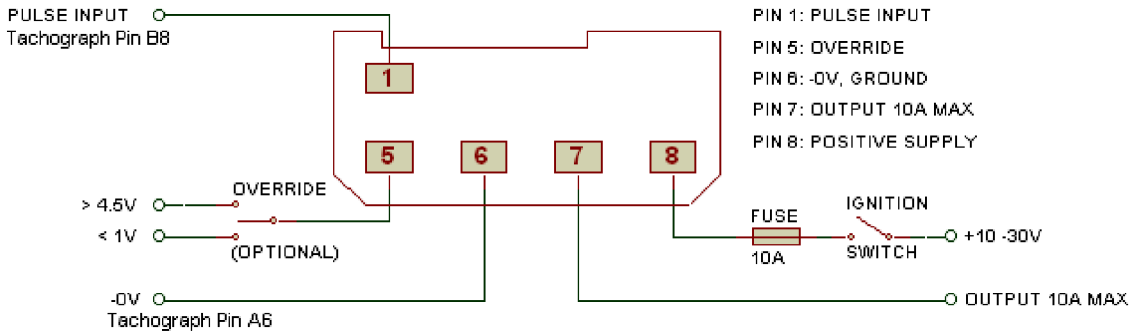


SPECIFICATION

Supply Voltage		**10 to 30V**
Supply Current		**< 5mA**
Output Current		**10A**
Switch Off Delay (Speed Increasing)		**1 second**
Switch On 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 On**
	> 4.5V	**Output Off**
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

Wiring Information



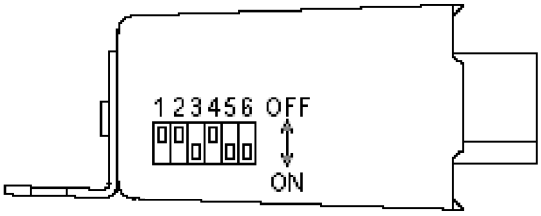
Note: Pin 1 and Pin 6 should be wired directly to the appropriate Pins on the Tachograph as indicated.

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**

On some Volvo trucks the speed setting may need to be set at half the required speed e.g. if 20mph is required set the speed switch to 10mph

SETTING INFORMATION



Example shows Speed Switch set to switch off 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

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