



Kanson Electronics, Inc.

INDUSTRIAL SOLID STATE MOTION DETECTOR

MODEL 1262 BASE MOUNT

Adjusting Set Time Interval

A timing potentiometer sets the time interval. It is necessary to calculate the period of time between pulses to determine the correct time setting.

1) Determine minimum operating speed. This is the speed at which the output energizes. Any greater speed also maintains an energized output. Any slower speed de-energizes the output.

2) Determine pulse/sec ratio provided by minimum operating speed.

example: 2 pulses/sec

3) Determine time interval between pulses.

example: 2 pulses/sec = 1 pulse/0.5 sec

4) Adjust timing potentiometer to a setting slightly greater than 0.5 sec. Minimum operating speed (1 pulse/0.5 sec) will provide 2 pulses in a time interval slightly greater than 0.5 sec and maintain an energized output. Any speed less than the minimum operating speed will not provide two pulses per set time interval, and the unit's output will de-energize.

5) Select a time range, when ordering a 1262, in which the set time interval for minimum operating speed falls midrange. This provides better time setting resolution.

example: Set time interval - 0.55 sec
Select time range "D" - 0.06-1.0 sec)



Underspeed or Overspeed Detection

Output Energizes only when running speed is reached.

AC Control Circuit is compatible with standard mechanical switches, solid state proximity sensors, and 120VAC pulse.

DC Control Circuit is compatible with solid state source or sink proximity sensors.

MSHA Investigation No. IA-137. The 1262 used in conjunction with the ISSC 1221 proximity sensor (see page 50) is approved by the Mine Safety and Health Administration.



CSA File No. LR92815

SPECIFICATIONS

INPUT

- VOLTAGE:** 120VAC
- FREQUENCY:** 50/60 Hz
- TOLERANCE (VOLTAGE):** ± 10% of nominal
- POWER CONSUMPTION:** 10 VA maximum
- TRANSIENT PROTECTION:** Isolation transformer

OUTPUT

- TYPE:** Electromechanical relay
- RATING:** 10A - 1/6 HP at 120VAC, 1/3 HP at 240VAC

FUNCTION

- TYPE:** Motion detector
- REPEAT ACCURACY:** ± 1% of setting
- INDICATION:** LED indicates unit timing and output energized
- TIMING RAMP:** 0.02 sec minimum time - 1MΩ/sec
0.06 sec minimum time - 100KΩ/sec
0.5 sec minimum time - 10KΩ/sec
- TIME RANGE:** 0.02 to 1000 secs in 13 ranges
- RESPONSE TIME:** Set time interval
- HYSTEROSIS:** ~5% between pick-up and drop-out speeds
- RANGE TOLERANCE:** ≤ 10% at max, ≤ 0% at min
- CONTROL TERMINALS:** A-B-C-D-E-F
- VOLTAGE PRESENT AT CONTROL TERMINALS:**
 - A - C : Same as input voltage
 - B - C : 120VAC pulse
 - D - E - F : 12VDC
 - D - E : 12VDC pulse

CYCLE TIME:

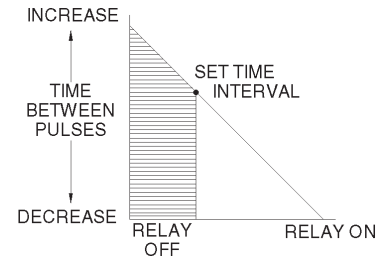
Time Range		AC Control	DC Control
A-C	Minimum time control circuit closed	8 msec	0.1 msec
	Minimum time control circuit open	16 msec	0.45 msec
	Maximum control circuit pulses/sec	40	1800
D-H	Minimum time control circuit closed	8 msec	0.1 msec
	Minimum time control circuit open	16 msec	5 msec
	Maximum control circuit pulses/sec	40	200
J-N	Minimum time control circuit closed	8 msec	8 msec
	Minimum time control circuit open	42 msec	42 msec
	Maximum control circuit pulses/sec	20	20

PHYSICAL

- OPERATING TEMP:** 0° to 50° C (32° to 122°F)
- TIMING VARIATION VS. TEMP:** ± 5% maximum
- MOUNTING:** Base mount
- TERMINATION:** Terminal block on face of timer
- HOUSING:** Metal

OPERATION

The output is de-energized when the monitored motion provides less than two pulses per set time interval. The output energizes when the monitored motion reaches or exceeds two pulses per set time interval. Once energized, the output will not de-energize until the monitored motion drops to less than two pulses per set time interval. The output automatically resets and the output energizes, when the monitored speed again matches two pulses per set time interval.



Initial Start Time Delay

The 1262 can be supplied with an initial start time delay which energizes the output for the time specified when the power is applied to the unit. This feature provides time at start up for the monitored equipment to reach a speed that will maintain an energized output. The output will de-energize, if the speed of the monitored equipment fails to reach the set point by the end of this delay. Removing and reapplying power resets the initial time delay.

1262 data continued on page 37

ORDERING DATA

ORDERING CODE 1262 - 1 - L - D - B - OP3(10)

BASIC MODEL NUMBER

1262

INPUT VOLTAGE

1 120VAC

DETECTION MODE

L Underspeed

TIME RANGE (Secs)

A 0.02-0.10	F 0.06-5.0	L 0.5-250
B 0.02-0.25	G 0.06-10.0	M 0.5-500
C 0.02-0.50	H 0.06-25.0	N 0.5-1000
D 0.06-1.0	J 0.5-50.0	W Fixed time
E 0.06-2.5	K 0.5-100	(see note)

NOTE: Specify W and desired fixed time.
Factory will set time within 5%

OUTPUT

- B Relay 1 N.O., 1 N.C.
- B1 Relay 2 N.O.
- B2 Relay 2 N.C

OPTION (If desired)

OP3 (t) Initial start time delay. Specify in parentheses time selected from below.

- 1 sec 10 secs
- 5 secs 25 secs

SPECIAL MODEL for PLC WATCHDOG applications

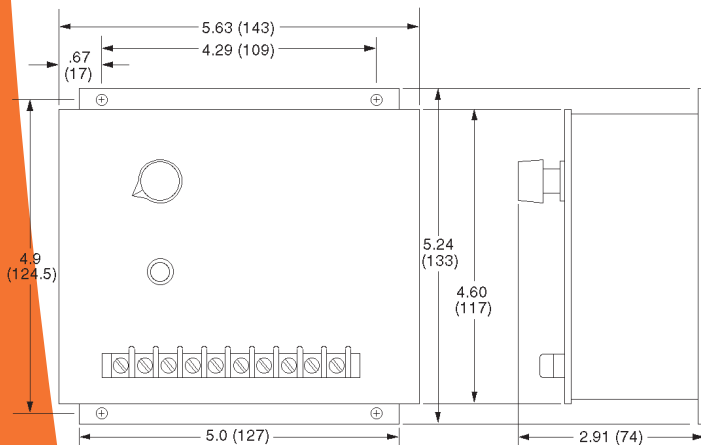
ORDER NUMBER 1262-PC

- 0.06-2.5 second timeout
- 2 second start-up delay
- Relay output 1 N.O., 1 N.C.

APPLICABLE ACCESSORIES

See accessory section for details
Locking attachment RP-217

DIMENSIONS Inches (millimeters)



WIRING

- A-B Voltage input (constant)
- A-C AC Control — mechanical contact or prox sensor
- B-C AC Control — 120VAC Pulse
- D-E-F DC Control — source or sink* prox sensor
- D- (DC-) common for prox sensor
- E- (A) input for prox sensor
- F- (+ 12VDC) supplied to prox sensor
- D-E 12VDC Pulse
- D- (DC-) Common
- E- (+12VDC) Supplied by sourcing output
- E-F DC Control — mechanical contact
- *When using sink prox sensor, install 1200 ohm pull-up resistor (supplied with unit) at E-F.
- 1-2 N.O. (except B2, N.C.)
- 3-4 N.C. (except B1, N.O.)

