

Dual Trip Alarm v5 BDTA137

DESCRIPTION

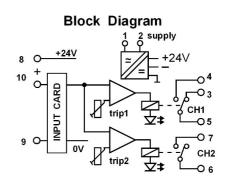
The BDTA137 is suitable for all standard process signals and all common types of sensors, featuring two independently adjustable trip points with true relay contact outputs. The standard Dual Trip Alarm will accept DC voltage or current input signals directly (0.1V up to 2kV, 0.1mA up to 2A). Low level sensor or AC input signals require an optional input conditioning card, which is factory fitted. Special requirements for input response time variation can be accommodated using the customised response option. Other options such as extreme low input load (25Ω at 20mA) can also be manufactured. The trip circuits are operated directly from the pre-conditioned input circuit. Trip status is indicated by red LED's. The action of trip operation, e.g. high or low alarm is internally selectable by coding plugs. Both relay contact outputs can also be configured internally to be normally open or normally closed. Dead band is adjustable from 0.5 to 30% via the front accessible



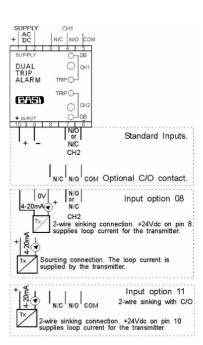
trim pots. Various power supply choices are available ranging from 240Vac down to 8Vdc. All supply models contain a dual output for power isolation. Surge protection for power supply and input is standard with all BASI modules.

General Specifications

| General Specifications | |
|------------------------------|----------------------------|
| Size: | 52 W x 70 H x 110 D (mm). |
| Housing material: | ABS. |
| Mounting: | DIN-Rail, gear plate. |
| Termination: | Screw terminals on front |
| | Terminal covers standard. |
| Weight: | 0.300 kg. |
| Protection class: | IP40. |
| Operating temperature range: | -10+60°C. |
| Storage temperature range: | -20+70°C. |
| Repeatability: | 0.1% of range. |
| Temperature drift | C C |
| of trip-point: | 0.01% / °C. |
| Relay contact: | Change-over and N/O or N/C |
| - | 8A/250V resistive |
| | 3.5A/250V inductive. |
| Contact isolation: | 2kV. |
| Auxiliary DC supply: | 24Vdc, 25mA max. |
| Dead band: | 0.5% to 30% |
| Power requirements: | 3W. |
| • | • • • • |
| | CE EN 50081-1, EN 61010-1 |



Connections



For input / output combinations refer to TYPE NO. DESIGNATION overleaf.

 BASI Instrument AB SWEDEN
 Dual Trip Alarm v5
 BDTA137
 Tel:+46 40 88 009
 www.basi.se

 BASI Instrument AB SWEDEN
 Drawing:
 DS13751 Issue:
 1 1/12/10
 DS:37:9-E
 Fax:+46 40 92 98 77
 sales@basi.se
 Page: 1

| | BDTA137 - X XX X XX |
|--|--|
| TYPE NO. DESIGNATION | |
| Power Supply: | |
| 0 = Signal powered (see inputs). 1 = 90-280Vac 50/60Hz (65-280Vdc). *) 4 = 8 - *) 3 = 16-48Vac 50/60Hz (10-60Vdc) 9 = Oth | 60Vdc. ner (Specify). |
| Input: | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | ptional input, see options below. - 20mA. (2-wire +24V on pin10) - 20mA, 4 – 20mA (externally sourced) 0 – 160Vac signal power. 80 - 260Vac signal power. - 60Vdc signal power. 0 – 160Vdc signal power. ther signal power, specify. |
| Trip Action and Contact Configuration: | |
| 3 = Both CH Rev (Low) CH1 C/O, CH2 N/O. 4 = Both CH Rev (Low) CH1 C/O, CH2 N/C. | 5 = CH1 Dir (High) C/O, CH2 Rev (Low) N/O. 6 = Both CH Dir (High) Contacts C/O. 7 = Both CH Rev (Low) Contacts C/O. 8 = CH1 Dir (High), CH2 Rev (Low) C/O. *) 9 = Other (Specify). |
| Options: | |
| 00 = None. *) 01 = Thermocouple input. *) 02 = RTD input. *) 03 = Frequency input. Calibration range 0 - 10Hz0 - 5kHz (Sine, Triangle) Sensitivity: 200mVpp. (70mV rms) min. 22Vpp. max (Square, Pulse). *) ■04 = Pulse input from NAMUR proximity sensor or passive device (contact, open collector). Auxiliary supply of 8Vdc at terminal 8, other data as option 03 above. *) 05 = AC input (current via external shunt). *) 06 = Bipolar / millivolt input. (±0.5mV to ±2kV bipolar) (1mV to 2kV unipolar). *) 07 = Resistance input (constant current). *) 08 = Customised response time. | 09 = pH/Electrochemical sensor input *) 10 = Adder or Subtractor. 2 inputs 4 - 20mA floating. *) 12 = True rms (any wave form). *) 13 = AC current (internal CT). *) 14 = Conductivity. (50µS/cm to 100mS/cm [k=1]). *) 15 = Dissolved oxygen input. *) 16 = Vibration piezo transducer. *) 17 = Load cell input. *) 18 = pH/ORP with Pt100 Temp Comp. *) 33 = Use with BASI external current transformer, specify one BSCT007(50A), BSCT012(100A), BSCT008(200A), BSCT009(600A) and scaling. External BASI CT's are ordered separately. *) 42 = Potentiometer 3W voltage excited. *) 99 = Other (Specify). |
| Definitions # Includes 24Vdc/25mA on terminal 8 on all contact configurations except 6, 7 & 8. ▲ Change over contact outputs are only available for 2-wire inputs. ■ Cannot order a ■ with a ▲. Dir Direct acting relay energised with input above set-point Rev Reverse acting relay energised with input below set-point N/O Normally open contact, open when relay de-energised. N/C Normally closed contact, closed when relay de-energised. C/O Change-over contact. *) Price Extra | |
| In the interest of development and improvement, BASI reserve the right to amend, without notice, details contained in this publication. BASI will accept no legal liability for any errors, omissions or amendments. | |

DS:37:9-E

Tel:+46 40 88 009 www Fax+46 40 92 98 77 sales@basi.se

www.basi.se

Page: 2

BASI Instrument AB SWEDEN Dual Trip Alarm v5 BDTA137 Drawing: DS13751 Issue: 1 1/12/10