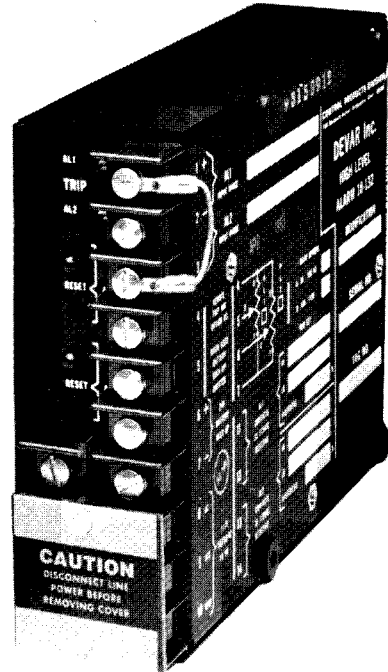


- \* REPEATABILITY 0.1%
- \* CURRENT OR VOLTAGE INPUT
- \* LED ALARM STATUS INDICATOR
- \* SUPPLIES 24 VDC FOR FOR FIELD TRANSMITTERS



### DESCRIPTION

DEVAR Inc.'s 18-132 High Level Alarm is an accurate, low cost, signal sensing alarm. It provides an excellent means of providing alarms for both current and voltage process signals. The integral power supply provides operation directly from 117 VAC line or 24 VDC (optional).

A non-inverting operational amplifier provides an input stage with range scaling and a high input impedance for all voltage ranges. This stage is connected to a precision voltage comparator through a trip point adjustment network. When the input signal reaches the trip point, a relay (SPST), which is normally energized for fail safe operation is de-energized, its contacts open and an L.E.D. lights to indicate an alarm condition.

Two basic models are available, a single channel unit and a dual channel unit with one set-point per

channel. Each alarm operates independently (with a common return) and may be set for "Hi" or "Lo" operating mode, various input ranges and different values of hysteresis. Calibration components are easily accessible to facilitate changes in alarm mode, input ranges and hysteresis.

To provide power for an external field transmitter, 24 VDC is available at the field wiring terminal block. This standard feature enables the user to power a field transmitter directly from the 18-132, thereby eliminating a separately mounted power supply.

The 18-132 optional features are: 10 amp contacts, latching relays, remote set points, SPDT/DPDT contacts, external dead band and 0 to 100% hysteresis adjustment.

# GENERAL SPECIFICATIONS

Repeatability 0.1% of Span  
 Minimum Trip Point 2% of Span  
 Hysteresis 1% - Standard  
 Up to 10% available  
 in 1% steps

Power Requirements 115V, ± 10V, 50/60 HZ, 10VA  
 24VDC Operation Optional (-E921)  
 Temperature Effect Less than ±0.02% per °F of Span  
 (20° to 120°F.)  
 Resolution of Trip Adj. 0.1% of Span.  
 (Blind Adjustment)

## CODING THE 18-132 HIGH LEVEL ALARM

BASIC NUMBER: 18-132

### INPUT

Select:	SINGLE	DUAL	
Current	-1	-11	0/5 mA, 1V Drop @ 5mA )
	-2	-22	1/5 mA, 1V Drop @ 5mA )
	-3	-33	4/20mA, 1V Drop @ 20mA )
	-4	-44	10/50mA, 1V Drop @ 50mA )
Voltage	-8	-88	0/1 V, Ri = 150K )
	-7	-77	0/2 V, Ri = 150K )
	-6	-66	0/5 V, Ri = 150K )
	-5	-55	0/10 V, Ri = 150K )
	-X	-XX	Other - Specify )

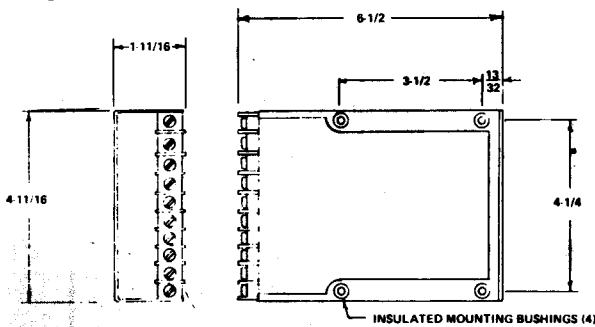
### OUTPUT

3A Resistive @ 24VDC/115 VAC, )	
Dust-tight Case )	Std. )
10A Resistive @ 24VDC/115 VAC, )	
Open-type Construction )	-A )
3A Resistive, 100VA maximum, )	
250 VDC maximum, hermetically )	-B )
sealed )	

### OPTIONS

A1C	Single Alarm SPDT	)
AA1C	Dual Alarm SPDT	)
A2C	Single Alarm DPDT	)
CD	Calibrated Dial	)
E71	220 VAC Power	)
E92 I	24 VDC Operation	)
E133	External Dead Band	)
LS	Latching Alarm (Includes LED's)	)
RS	Remote Trip-Point Adjustment	)
M31	Surface Mounting Bracket	)
M32	Mtg. Brkt. with Cover	)

### MECHANICAL SPECIFICATIONS

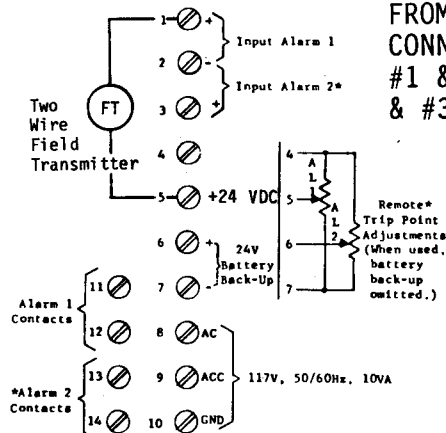


## DEVAR Inc.

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 LOG ON via the Internet through the world wide web  
 use: <http://www.devarinc.com>

-X                      -X                      -X

### WIRING DIAGRAM



NOTE: FOR DUAL ALARM FROM SINGLE INPUT, CONNECT INPUT TO #1 & #2, JUMPER #1 & #3. OMIT R110B.

### FIELD WIRING TERMINALS

BULLETIN 18132-0593

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