

INTRINSICALLY SAFE LOOP POWERED INDICATORS

Model 3505/6

3506



3505



The Models 3506 and 3505 are low power, Liquid Crystal display, loop powered 3½ Digit Indicators. Both models are certified intrinsically safe for use in hazardous areas.

Switch selectable display calibration and decimal point selection allows for easy field setting of engineering units for pressure, flow, level, mass etc.

FEATURES

3506

- IP 65 Polycarbonate Enclosure
- 1999 Counts
- 18 mm LC Display
- No supply cabling
- Easy field mounting
- 50 mm Pipe Mount option

3505

- DIN 48 X 96 Enclosure
- 1999 Counts
- 12,7 mm LC Display
- No supply cabling

APPROVAL

Intrinsic
SAFETY



Intrinsieke
VEILIGHEID

Ex ib Temperature Class T 6

SABS 549 : 1993

SPECIFICATIONS

INPUT RANGES

4 - 20 mA DC
0 - 20 mA DC (requires min. 0.2 mA for display)

PROTECTION

To SABS 549-1993

Approved Intrinsically Safe groups 2A; 2B; 2C, category Ex ib, Temperature class T6, if powered from approved and/or suitable intrinsically safe supply or barrier device.

Suitable for Class I, div 1 or 2 locations
and Class II, div 1 or 2 locations
Metallic or non-metallic dusts

Rating: IP 65 (Model 3506 only)

ADJUSTABILITY

Decimal Point: 3505 - Link selectable
3506 - 3 way DIL switch selectable

Zero Adjust : Link selectable for live Zero (4 - 20 mA) or Zero base (0.2 - 20 mA)
plus 16 way rotary switch and trimpot

Span Adjust : 230 - 1999 Counts by 16 way rotary switch and trimpot

NB: It is highly recommended that the Model 3505 and 3506 are shielded from direct sunlight and heat sources to maximize liquid crystal display life.

ELECTRICAL SPECIFICATIONS

Accuracy: 0.05% typ.
0.2% max.

Linearity: 0.1% of F.S.

Temperature Coeff.: ± 30 ppm / $^{\circ}\text{C}$ typ.
 ± 80 ppm / $^{\circ}\text{C}$ max.

Settling Time: 1 second

Operating temperature range: -10 to $+50^{\circ}\text{C}$

Storage temperature range: -20 to $+70^{\circ}\text{C}$

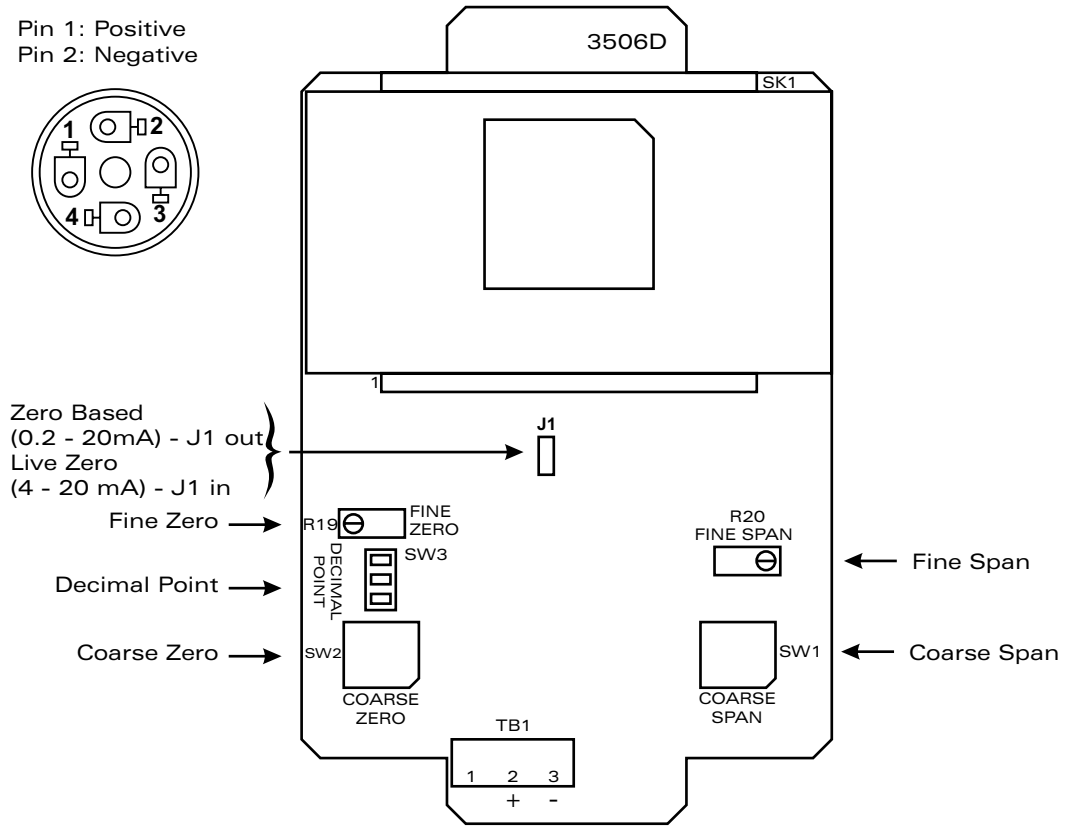
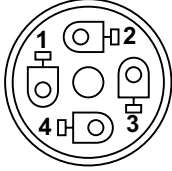
Power supply: Max 2V at 20mA
Reverse polarity protected

Input protection: Duplicated zener diodes
5.6 V; 400 mW
Sharp knee type

3506

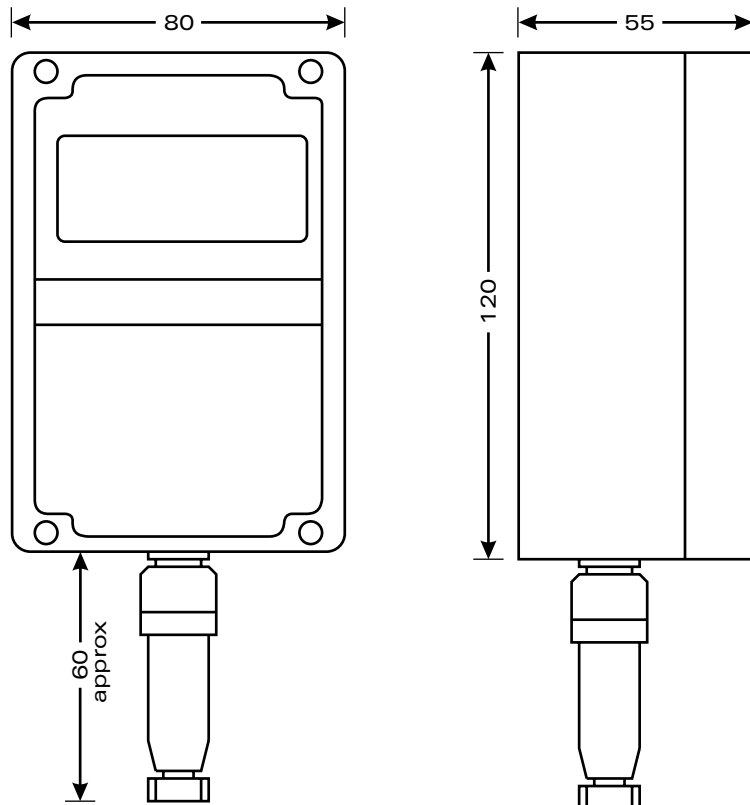
INPUT SIGNAL TO
CABLE CONNECTOR :

Pin 1: Positive
Pin 2: Negative

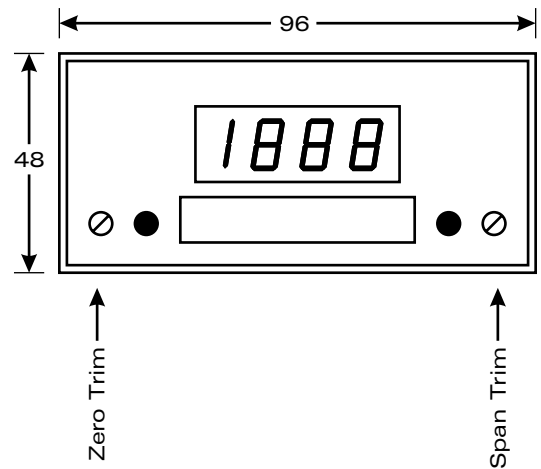
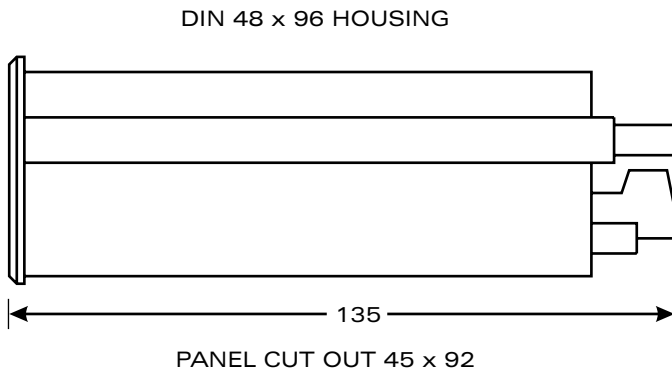
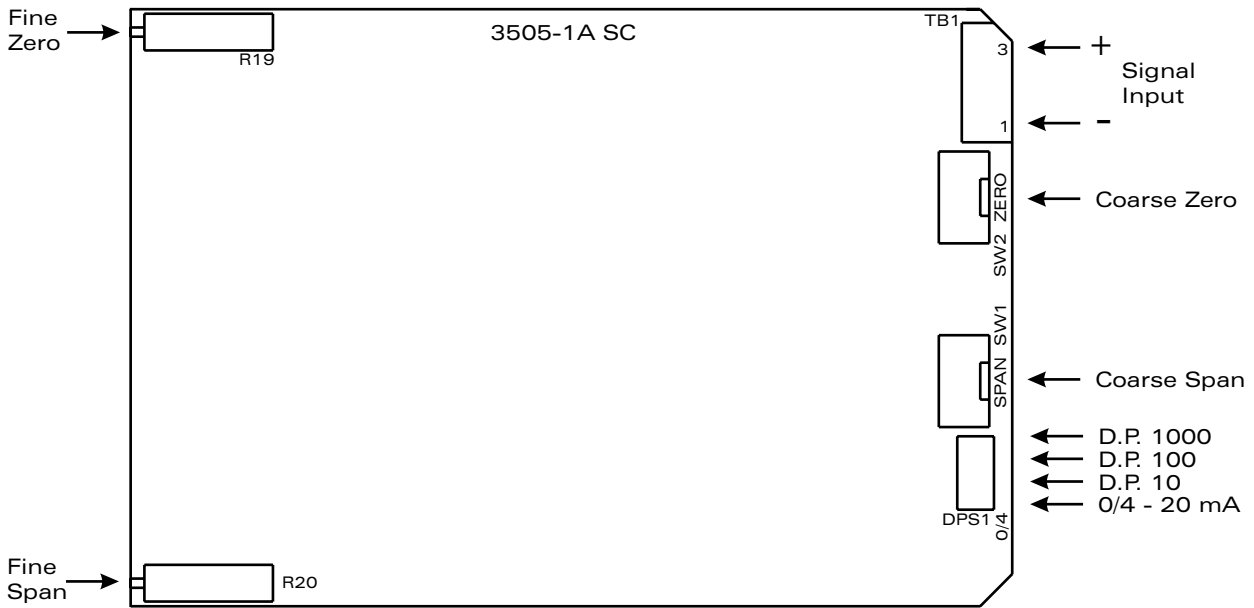


MOUNTING DIM:
108 x 50, 4 mm diameter

50mm pipe mounting
available on request



3505



GUARANTEE

This product is guaranteed against faulty workmanship or defective material, for a period of 3 (three) years from date of delivery by Instrotech.

Instrotech undertakes to replace without charge all defective equipment which is returned to it (transportation costs prepaid) during the period of guarantee, provided there is no evidence that the equipment has been abused or mishandled in any way.

Instrotech reserves the right to alter any specification without notice.

DISTRIBUTED BY:

