

LOAD CELL TYPE AA-AB



The PIAB AA-AB Load cell is designed for aggressive industrial use for measuring tensile and compressive loads.

PIAB

TECHNICAL DATA

NON-LINEARITY % of R.O.	<+/-0.04
HYSTERESIS % of R.O.	<0.08
REPEATABILITY % of R.O.	<+/-0.02
CREEP ERROR AT R.C. 30 MIN % of load	<+/-0.05
CREEP BETWEEN 20 AND 30 MIN % of load	<+/-0.01
MINIMUM LOAD OUTPUT RETURN % of R.O.	<+/-0.05
EXITATION V	10 (15)
INPUT RESISTANCE Ohm	410+/-20
OUTPUT RESISTANCE Ohm	350+/-3
INSULATION RESISTANCE Gohm	>5
TEMP. EFFECT ON MIN. LOAD OUTPUT % of R.O./°C	<+/-0.004
TEMP. EFFECT ON SENSITIVITY % /°C	<+/-0.004
COMPENS. TEMP. RANGE °C	-10 - +40
OPERATING TEMP. RANGE °C	-30 - +70
SAFE LOAD % of R.C.	150
BREAKING LOAD % of R.C.	>400
PROTECTION CLASS IP	65.
SURFACE PROTECTION	El. zink coated and chromated.
CABLE LENGTH	5 m (Or connector)
<i>Continuous product development may change specification.</i>	



GIGASENSE

Force Measurement

Gigasense AB • P.O. Box 123
SE-184 22 ÅKERSBERGA • Sweden
e-mail info@gigasense.se • www.gigasense.se

FEATURES

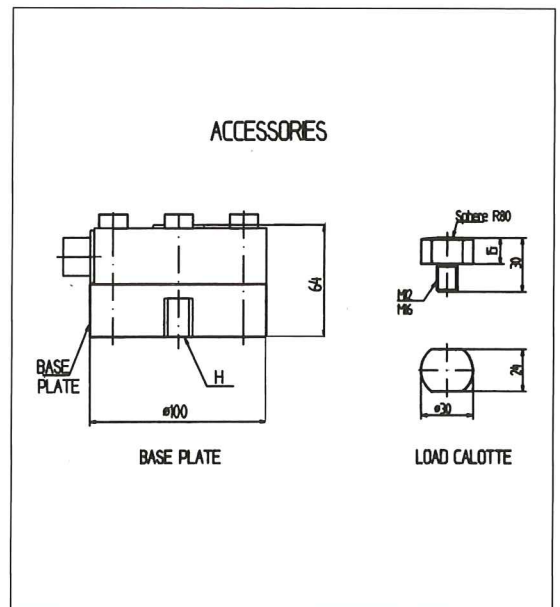
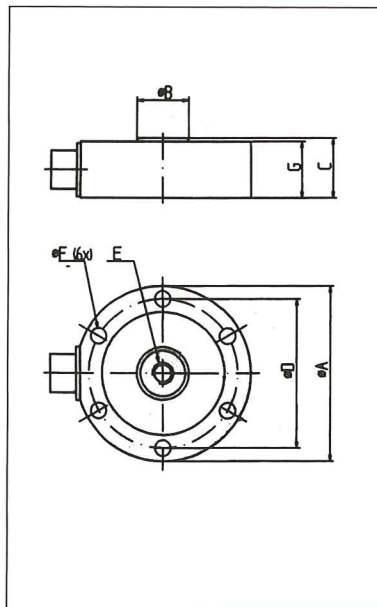
- Accurate measurement of compressive and tensile loads.
- Nominal load capacity from 500 kg to 5 t. (5 kN to 50 kN).
- Low installation height.
- Simple mounting.
- High resistance for sideloads.
- Doublebridges as option.

DESCRIPTION

The load cells in the AA - AB series are of low profile type from 500 kg (5 kN) to 5000 kg (50 kN). The height is 34 mm and the diameter 100 mm. The load cell is manufactured in one billet of hardened alloy steel. The load is detected by strain gauges in radial going beams in the load cell. The strain gauges are connected in a

bridge delivering an analogue signal in proportion to the load. The same accuracy for tension and compression. The deflection of the cell is extremely small which means high stiffness and high natural frequency. The load cell can be fabricated with double bridges.

MODELL	RATED CAP. (R.C.) kg / kN	RATED OUTP. (R.O.) mV/V +/- 0.1%	A mm	B mm	C mm	G mm	D mm	E mm	F mm	N mm	H mm	WEIG. kg
AA	500/5 - 1000/10	2	100	30	34	32	85	M12x1,75	9	6	M12x1,75	1.4
AB	2000/20 - 5000/50	2	100	30	34	32	85	M16 x 2	9	6	M16 x 2	1.4



WIRING SCHEMATIC

