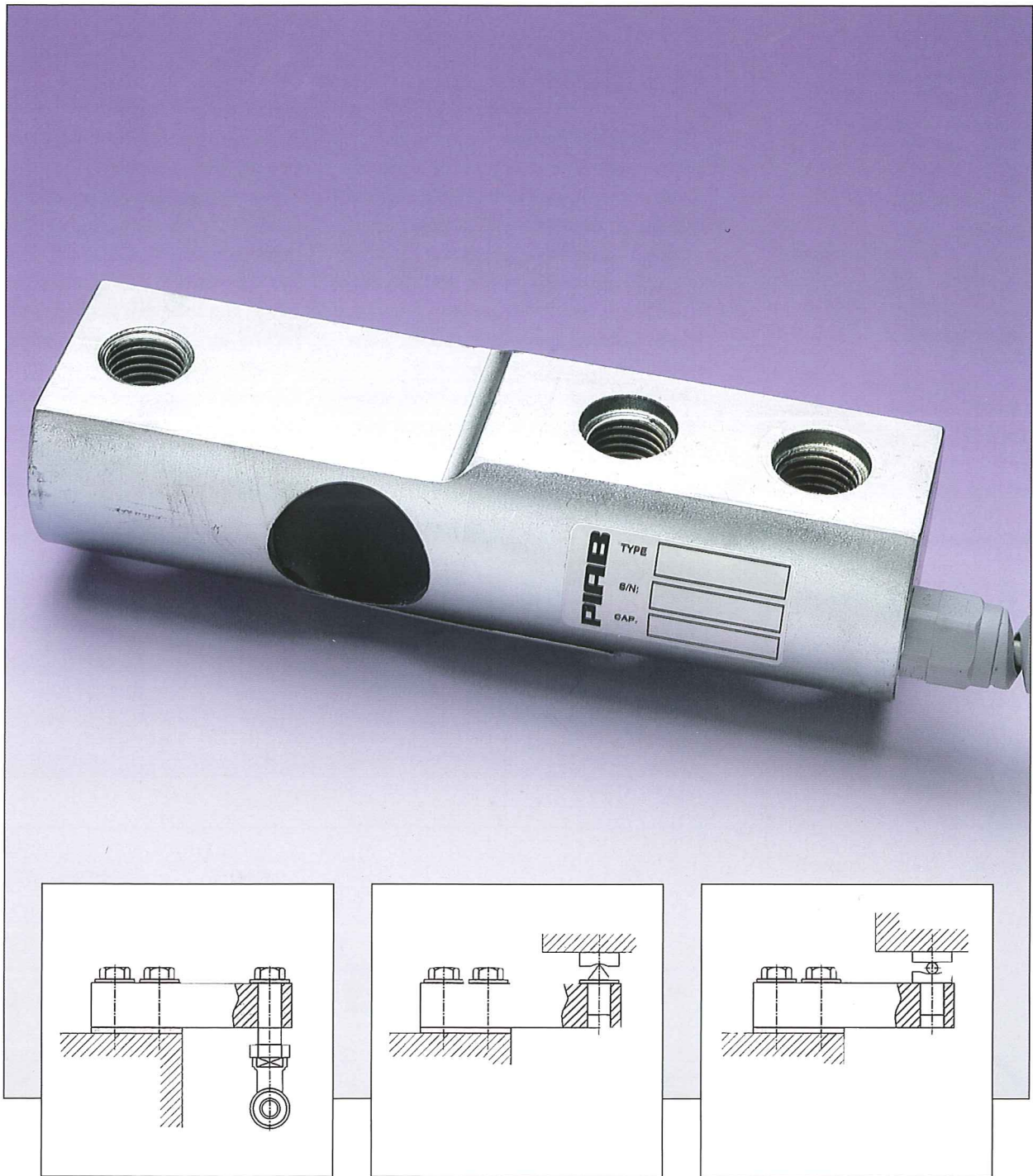


LOAD CELL TYPE PM



The PIAB PM load cell is designed for aggressive industrial use for excellent measuring of tensile and compressive loads.

PIAB

TECHNICAL DATA

NON-LINEARITY % of R.O.	<+/-0.025	<+/-0.035
HYSTERESIS % of R.O.	<0.05	<0.07
REPEATABILITY % of R.O.	<+/-0.01	<+/-0.02
CREEP ERROR AT R.C. 30 MIN % of load	<+/-0.035	<+/-0.0045
CREEP BETWEEN 20 AND 30 MIN % of load	<+/-0.0075	<+/-0.01
MINIMUM LOAD OUTPUT RETURN % of R.O.	<+/-0.017	<+/-0.035
EXITATION V	10 (15)	10 (15)
INPUT RESISTANCE Ohm	410+/-20	410+/-20
OUTPUT RESISTANCE Ohm	350+/-3	350+/-3
INSULATION RESISTANCE Gohm	>5	>5
TEMP. EFFECT ON MIN. LOAD OUTP. % of R.O./°C	<+/-0.0014	<+/-0.003
TEMP. EFFECT ON SENSITIVITY % /°C	<+/-0.001	<+/-0.004
COMPENS. TEMP. RANGE °C	-10 - +40	-10 - +40
OPERATING TEMP. RANGE °C	-30 - +70	-30 - +70
SAFE LOAD % of R.C.	150	150
BREAKING LOAD % of R.C.	>400	>400
PROTECTION CLASS	IP 67.	
SURFACE PROTECTION	El. zink coated.	
CABLE LENGTH	Standard 5 m	

Continuous product development
may change specification.



GIGASENSE

Force Measurement

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

FEATURES

- PM5 - PM35 and PM75 can be delivered for 3000 div. class C.
- Designed for tensile and compressive loads.
- Nominal load from 500 kg to 50 t. (5kN to 500 kN).
- Low installation height.
- Simple mounting.
- High resistance for lateral and longitudinal forces.
- Option stainless steel.

DESCRIPTION

The PM load cell is a "rectangular" shear beam type designed for accurate measurement. The low profile and unique design enables excellent performance with a simplicity to adapt the load cell. It is also extremely stable and can resist shockloads in all directions.

Manufactured from high quality alloy steel in one piece.

The load on the cell causes shear stress in the bar. The stress is measured by

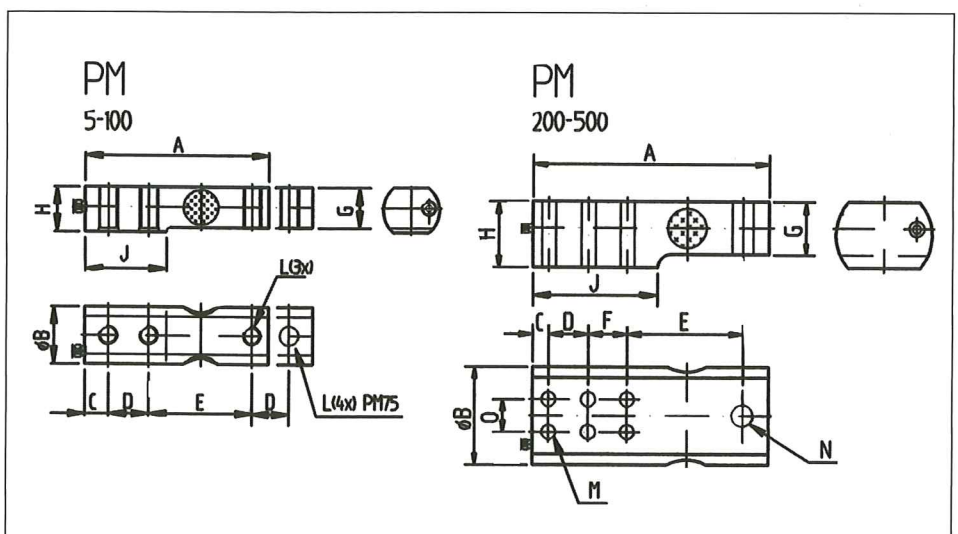
strain gauges in a fullbridge giving out an analogue signal.

The strain gauges are protected by different layers of adhesive coat and plastics giving the load cell dust and humidity protection of class IP 67.

In use the load cell is clamped in one end by screws and load is applied in the other end.

Use high tensile screws for mounting drawn to right torque.

MODELL	RATED CAP. (R.C.) kg / kN	RATED OUTP. (R.O.) mV/V +/- 0,1%	MEASUREMENTS mm													WEIG. kg	
			A	B	C	D	E	F	G	H	J	L	M	N	O		
PM5	500/5	2	160	50	20	35	90		35	39	70	M16					1.8
PM10	1000/10	2	160	50	20	35	90		35	39	70	M16					1.8
PM20	2000/20	2	160	50	20	35	90		35	39	80	M16					1.8
PM35	3500/35	2	160	50	20	35	90		35	39	80	M16					1.8
PM50	5000/50	2	200	75	20	50	110		45	55	105	M20					4.6
PM75	8000/80	1.3	340	100	30	75	130		70	80	130	ø26					15
PM100	10000/100	1.7	265	100	30	75	130		70	80	130	ø26					12
PM200	20000/200	1.5	360	137	25	60	175	60	80	100	190		22	32	50		27
PM500	50000/500	1.0	400	170	25	65	180	65	110	120	200		26	51	60		50



WIRING SCHEMATIC

