

LL/LLA LINK



For accurate force measurement and load indication.
The PIAB LL and LLA are made for use in aggressive industrial environments and fully conform to IP 67.

PIAB

TECHNICAL DATA LL/LLA

ACCURACY

$\pm 0.15\%$ of the max. capacity.

MATERIAL

Toughened steel, zinc coated and white chromated.
Extra: polyester lacquering.

INTERNATIONAL PROTECTION SPECIFICATION CLASS
IP 67.

TEMPERATURE RANGE
-20°C - +70°C.

OVERLOAD

50% without affecting the accuracy.

TECHNICAL DATA LL

RECOMMENDED INPUT VOLTAGE
10 VDC.

MAX INPUT VOLTAGE
15 VDC.

SENSITIVITY
0-approx. 1.7mV/V.

TRANSDUCER IMPEDANCE IN
380 ohm.

TRANSDUCER IMPEDANCE OUT
350 ohm.

REPEATABILITY
 $\pm 0.1\%$ of the max. capacity.

CABLE

4 m 6 x 0.5 mm² shielded cable.

TECHNICAL DATA LLA

SUPPLY VOLTAGE
15-30 VDC.

POWER CONSUMPTION
Approx. 60 mA.

OUTPUT SIGNAL

4-20 mA. The signal is resistant to interference and can withstand, without affecting the accuracy, serial resistances up to 250 ohm.

CABLE

4 m 4 x 1.5 mm² unshielded cable. The cable transmits supply voltage to the transducer amplifier as well as an output signal from the transducer amplifier to the electronic unit. The cable can be placed close to other live cables without affecting the output signal.



GIGASENSE
Force Measurement

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RANGE OF APPLICATION

The PIAB LL/LLA can be used as a transmitter for weighing and measuring of tension forces.

The LL and LLA are suitable as transmitters and overload guards, for

protection and load indication.

LL-Link without transducer amplifier (0-approx. 1.7mV/V).

LLA-Link with built-in transducer amplifier (4-20mA).

FUNCTION

The tension force affecting the Link is measured by means of strain gauges.

Four gauges in a Wheatstone bridge are fed with a constant voltage.

The output signal from the bridge (mV/V) is proportional to the force on the Link.

The transducer amplifier of the LLA

amplifies and converts the signal to a current signal of 4-20 mA which is

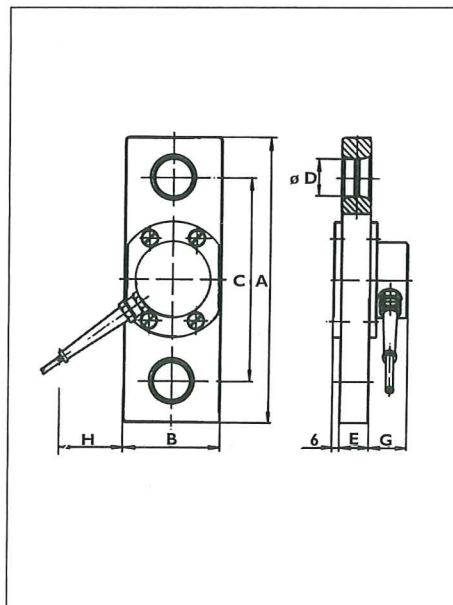
resistant to interference. This signal corresponds to the capacity of the

transducer. The amplified signal can be transmitted a distance of at least 500 m.

Important! The LL/LLA must not be exposed to bending and turning moments.

TYPE LL/LLA	CAPACITY ton	WEIGHT kg		MEASUREMENTS mm						
		LL	LLA	A	B	C	D	E	G	H
2	2	2.6	3.1	205	69.3	150	26	20	31	68
3	3	2.7	3.2	205	72.4	150	26	20	31	67
5	5	5.0	5.3	258	89.6	184	34	27	34	58
10	10	7.1	7.4	300	96.0	204	46	35	34	56
20	20	19.4	19.7	440	147	290	60	47	36	50
50	50	30.0	30.2	570	187	350	95	47	36	30
75	75	49.0	49.2	570	187	350	95	77	36	30

LL 2-75/LLA 20-75



LLA 2-10

