

The **LGPA 5073 series** is a high-precision, **low-profile pancake load cell** engineered for both tension and compression force measurement. Designed for demanding industrial environments, this sensor offers a capacity range from **10,000 lbs to 50,000 lbs (10klb – 50klb)**, providing reliable data for structural testing and heavy-duty weighing. With its robust **stainless steel construction** and a threaded center hole, the LGPA is built for durability and easy integration. It features a built-in internal amplifier providing a **4–20 mA analog output**, making it 100% compatible with modern PLCs, DAQ systems, and industrial controllers without needing external signal conditioners.



FEATURES

- **High Capacity Range:** Available in capacities from 10klb to 50klb
- **Low-Profile "Pancake" Design:** Ideal for applications with tight vertical clearance
- **Universal Measurement:** Precision accuracy in both **Tension and Compression** modes
- **Industrial Output:** Standard **4–20mA** signal for long-distance transmission with minimal noise.

APPLICATIONS

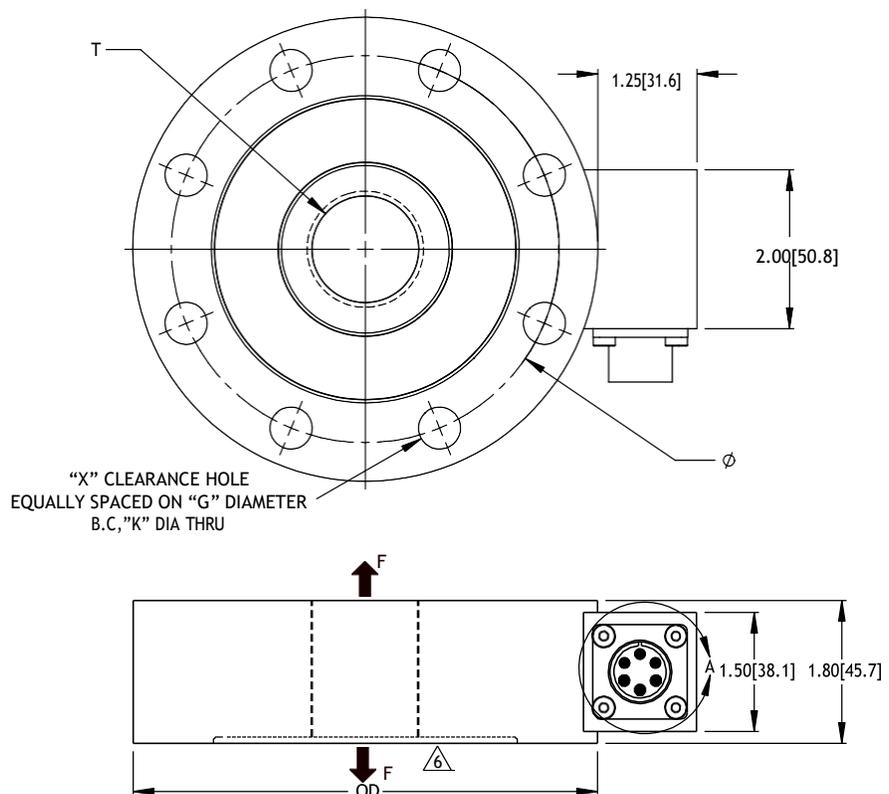
The LGPA 5073 is a versatile force transducer used across various sectors in the US market:

- **Aerospace:** Jet engine thrust measurement and component testing.
- **Infrastructure:** Cable tension monitoring and structural integrity analysis.
- **Manufacturing:** Press force monitoring and material testing where space is limited.
- **Oil & Gas:** Heavy-duty weighing and industrial automation.

OPTIONS

- While the standard model features a 4–20mA output for easy PLC integration, a **mV/V** version is also available for use with external strain gauge amplifiers.

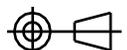
DIMENSIONS



Capacity (klb)	OD	ØG	T	X	ØK
10-15	5.45[138.5]	4.500[114.30]	1-14UNS	8	0.40[10.2]
20-50	5.85[148.5]	4.875[123.83]	1 1/2-12UN		0.53[13.5]

NOTES:

- 1) ARROW INDICATES THE POSITIVE LOADING DIRECTION.
- 2) ALL DIMENSIONS ARE IN INCH[MM].



pancake
5073
LGPA



SPECIFICATIONS

Model	LGPA	
Capacities	See table	
Non-linearity	%FS	±0.10
Hysteresis	%FS	±0.08
Creep @30min	%FS	±0.07
Output @Zero load	mA	4.0±0.5
Output @Full load	mA	20.0±1
Temperature range		
Operating	°C	-20 ~ + 65
Excitation voltage	VDC	12...30
Safe overload limit	%FS	150
Ultimate load	%FS	200
Seal type	IP67	
Element material	Stainless steel	

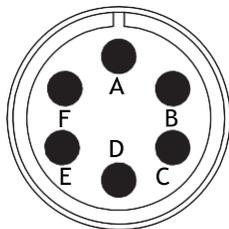
PART NUMBERS

Capacity (klb)	Part No.
10	5073-000-00
15	5073-001-00
20	5073-002-00
30	5073-003-00
50	5073-004-00

WIRING

Pin	Connection
A	+Supply
B	Common
C	N/C
D	N/C
E	N/C
F	Shield

PIN CONFIGURATION

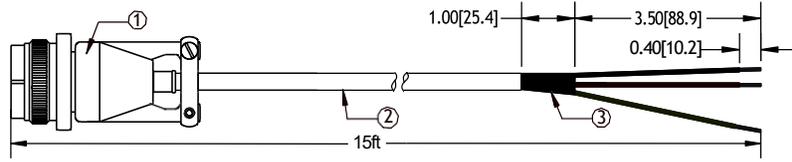


Connector: MS3102A-14S-6P.

ACCESSORIES

MATING CABLE:

Part No. : xxxxxxxx.

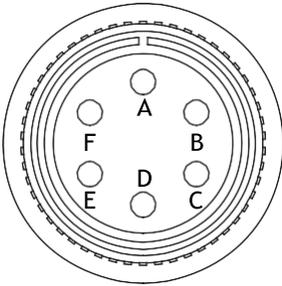


Cable Color Code:

Pin No	Connection	Color
A	+Supply	Red
B	Common	Black
C	N/C	-
D	N/C	-
E	N/C	-
F	Shield	Yellow

Item No	Description	Part No.
1	6 Position circular connector plug, female sockets solder cup	MS3106E-14S-6S
2	22AWG 4 Core black PVC cable	-
3	Black color shirn tube	-

Cable Pin Configuration:



Group Four
A PARASOL COMPANY

“WE TAKE THE LOAD OFF YOUR MIND”

Group Four Transducers
22 Deer Park Drive
E. Longmeadow, MA 01028
www.groupfourtransducers.com

Phone: (800) 419-1444
Fax: (413) 525-6182
sales@group-4.com