ACRN
Quality Control Machine
Industry & Packaging

DATASHEET

# GL

BUTTON LOAD CELL · STRAIN GAUGE

Compact, temperature-compensated strain gauge button load cell.

- 13 capacities from 100 N to 200 kN
- Non-linearity ≤ ± 0.5 % FS
- Three tapped mounting holes on the underside
- 2 mV/V output, 2 m shielded cable

**13 CAPACITIES** | **± 0.5 % FS · IP64**




SPECIFICATIONS

## TECHNICAL DATA

| | | | |
|---|---|---|---|
| CAPACITIES | **100 N to 200 kN** | TOTAL ERROR | **± 0.8 % FS** |
| ALLOWABLE OVERLOAD | **150 % FS** | OUTPUT | **2 mV/V (1 mV/V at 100 N)** |
| NON-LINEARITY | **± 0.5 % FS** | EXCITATION | **5 V recommended, 10 V max** |
| HYSTERESIS | **± 0.3 % FS** | PROTECTION | **IP64** |
| REPEATABILITY | **± 0.1 % FS** | COMPENSATED RANGE | **−15 to 70 °C** |

### A QUESTION ABOUT THIS SENSOR?

Our application engineers reply within 48 working hours.

REQUEST A QUOTE

## DESIGN AND WIRING

### DESIGN

- Strain gauge sensor
- Temperature compensated
- Bonded cover as standard (IP64)
- Three tapped mounting holes on the underside

### WIRING

- Braided shielded cable 4 × 28 AWG, 2 m
- Red / black: excitation + / −
- Green / white: signal + / −
- Bridge 350 Ω (100 to 500 N), 700 Ω (from 1 kN)

### OPTIONS

- 6-wire cable
- Fully welded cover
- Amplified and digital versions
- Extended temperature ranges

## ACCURACY AND ENVIRONMENT

| | |
|---|---|
| Capacities | **100, 200, 500 N · 1, 2, 5, 10, 15, 20, 50, 100, 150, 200 kN** |
| Zero balance | **2 % FS max** |
| Thermal drift | **0.01 % FS/°C (zero) · 0.02 % FS/°C (span)** |
| Operating temp. | **−20 to 80 °C** |




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