Model 127
Load Cell

DESCRIPTION

The Model 127 load cells combines both a compact form and high precision to offer a superior tension force transducer. The one-piece S-shaped design achieves a maximum non-linearity of 0.03 % full scale for load ranges of 50 kg and 100 kg.

FEATURES

- 50 kg, 100 kg range
- ±0.03 % FS accuracy
- Built-in overload resistance
- One-piece, nickel-plated alloy steel construction
- Integral cable
- Cost efficient

Model 127

PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Load ranges[3]	50 kg, 100 kg
Accuracy	±0.03 % full scale
Output	3.0 mV/V
Creep (max.)	±0.03 % full scale (30 minutes)

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-30 °C to 70 °C [-22 °F to 158 °F]
Temperature, compensated	-20 °C to 55 °C [-4 °F to 131 °F]
Temperature effect, zero	±0.03 % full scale/10 °C
Temperature effect, span	±0.03 % full scale/10 °C
Protection class	IP67

ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Strain gage type	Bonded foil
Excitation (acceptable)	10 Vdc to 12 Vdc
Excitation (max.)	15 Vdc
Insulation resistance	≥ 5000 mOhm
Bridge resistance (tolerance) - Input resistance	400 ohm ±10 ohm (nominal)
Bridge resistance (tolerance) - Output resistance	352 ohm ±2 ohm (nominal)
Zero balance (tolerance)	±1 % full scale
Electrical termination (std)	5 m [16.40 ft] flying leads

MECHANICAL SPECIFICATIONS

Characteristic	Measure
Maximum allowable load	150 % full scale[1]
Material	Nickel plated alloy steel

WIRING CODES

Cable	
Red	(+) supply
Black	(-) supply
Green	(+) output
White	(-) output
Large Black	Shield

RANGE CODES

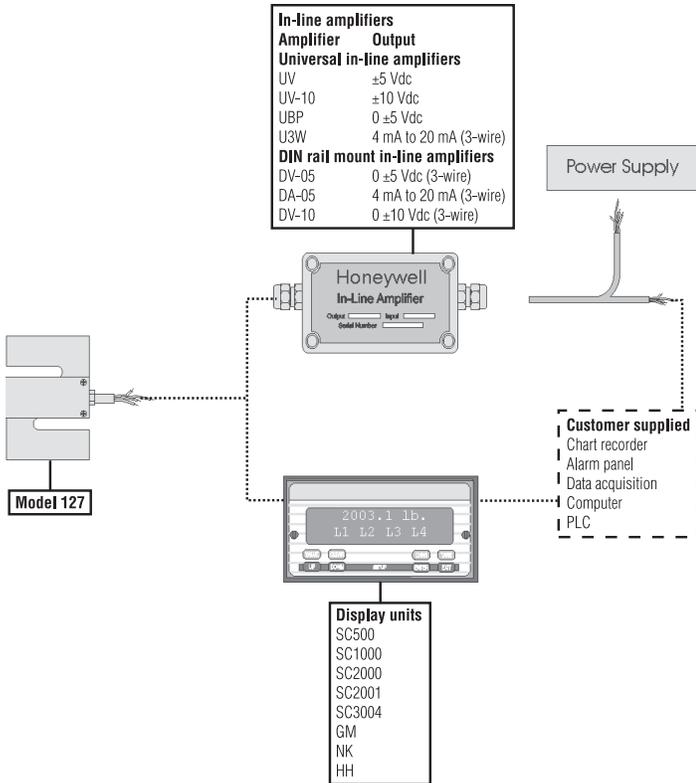| Range codes	Range
LF	50 kg
LH	100 kg

MOUNTING DIMENSIONS
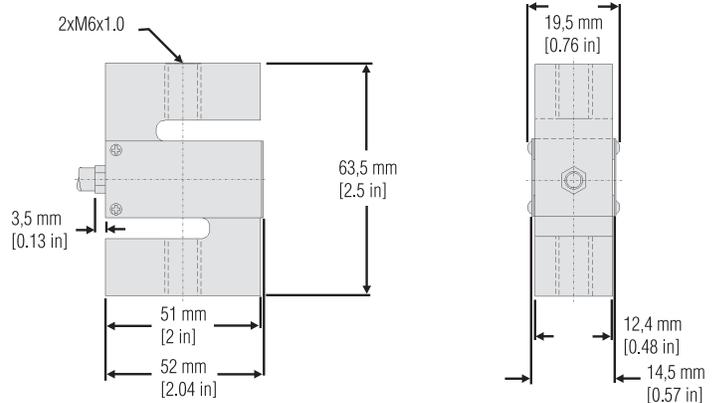
NOTES

1. Allowable maximum loads – maximum load to be applied without damage.[2]
2. Without damage - loading to this level will not cause excessive zero shift or performance degradation. The user must consider fatigue life for long term use and structural integrity. All structurally critical applications (overhead loading, etc.) should always be designed with safety redundant load paths.
3. This unit is calibrated to Metric (non-Imperial) units.

TYPICAL SYSTEM DIAGRAM

In-line amplifiers	
Amplifier	**Output**
Universal in-line amplifiers	
UV	±5 Vdc
UV-10	±10 Vdc
UBP	0 ±5 Vdc
U3W	4 mA to 20 mA (3-wire)
DIN rail mount in-line amplifiers	
DV–05	0 ±5 Vdc (3-wire)
DA–05	4 mA to 20 mA (3-wire)
DV-10	0 ±10 Vdc (3-wire)

Power Supply

Honeywell
In-Line Amplifier
Output ▭ Input ▭
Serial Number ▭

Model 127

2003.1 lb.
L1 L2 L3 L4

Customer supplied
Chart recorder
Alarm panel
Data acquisition
Computer
PLC

Display units
SC500
SC1000
SC2000
SC2001
SC3004
GM
NK
HH

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While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847 Email inquiries to info.sc@honeywell.com

⚠ WARNING
PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

⚠ WARNING
MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.