Group Four Transducers Inc

Pioneering Measured Solutions

digital single ended beam
ZQD 4089D

The type ZQD is an aluminum single ended beam.Ideal for use in floor scales, Bench Scales, tank and hopper weigh systems and conveyor scales.

IP67

FEATURES

- Capacities from 10kg to 100kg.
- Aluminum construction.
- Environmental protection IP67.
- AD conversion rate up to 1200upd./sec.

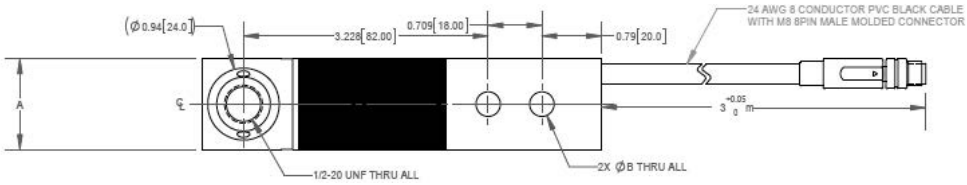
APPLICATIONS

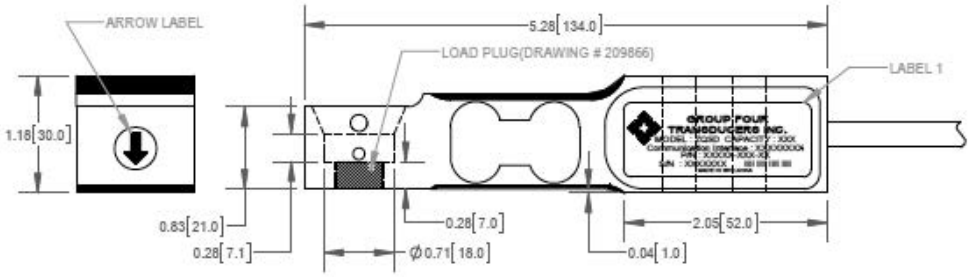
- Floor scales, Bench Scales, tank and hopper weigh systems and conveyor scales.

OPTIONS

- Load cells can be supplied with calibration certificates as per ASTM E74.

OUTLINE DIMENSIONS





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

digital single ended beam
ZQD
4089D

WIRING

Cable wire color	RS-485+RS-422
Black	GND
Green	Rx+
White	Rx-
Red	PWR+
Blue	Tx+
Brown	Tx-

Cable : 24 AWG, 6 Conductor, black, foil shielded PVC matt cable.

SPECIFICATIONS

Model	ZQD	
Capacities (E_{max})	kg	10/ 100
PERFORMANCES		
Accuracy class according to the OIML R60	C3	
Combined Error	%FS	≤±0.02
Creep @ 30min	%FS	≤±0.02
Zero Balance, raw counts	increments	±2000
Output resolution at full load, raw counts	increments	512000
Internal AD conversion rate	upd./sec	1200
Fix, Digital Low Pass IIR Filter, Default	Hz	18 (Supress 50Hz and 60Hz Influence)
Adjustable , Digital Low Pass IIR Filter Adjustable , Digital Low Pass FIR Filter	Hz	18-0.25; Selectable in 8 Steps 40-5; Selectable in 8 Steps
Adjustable, External Output Update Rate	upd./sec	1200-9; Selectable in 8 Steps
GENERAL I/O's		
Hardware Interface, RS Version	RS485 with four wires	
Data transm. rates RS485	kb	9.6;19.2;38.4;57.6;115.2;230.4;460.8
Protocol RS485	ASCII or Modbus RTU	
Logical Input, Programmable	Trigger Level 2-30Vdc,<3mA,Ref to Gnd.	
Power supply	VDC	10-30 ≤ 0.4 Watt
INFLUENCES		
Safe Load Limit	%* E_{max}	150
Ultimate Load	%* E_{max}	300
Temperature Effect on Zero	%FS/10°C	0.04
Temperature Effect on Span	%FS/10°C	0.04
Temperature Range	°C	Operating: -10/+40 Storage: -40/+70
EMC performance	MID Class E2 (Industrial Locations)	
I/O Protection	Reversed Polarity; Excess Voltage and Surge	
Isolation Body/ Electronics at 500VDC	GΩ	≥1
Vibration	2.5G Operational; 5G Non-Operational	
Cable length	m	3 +0.05/ -0
Environmental Protection	IP67	
Corrosion Resistance	Anodized Aluminum	

PART NUMBERS

Capacity(kg)	Part No.
100	4089D-000-00

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Dimensions and specifications subject to change without notice

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