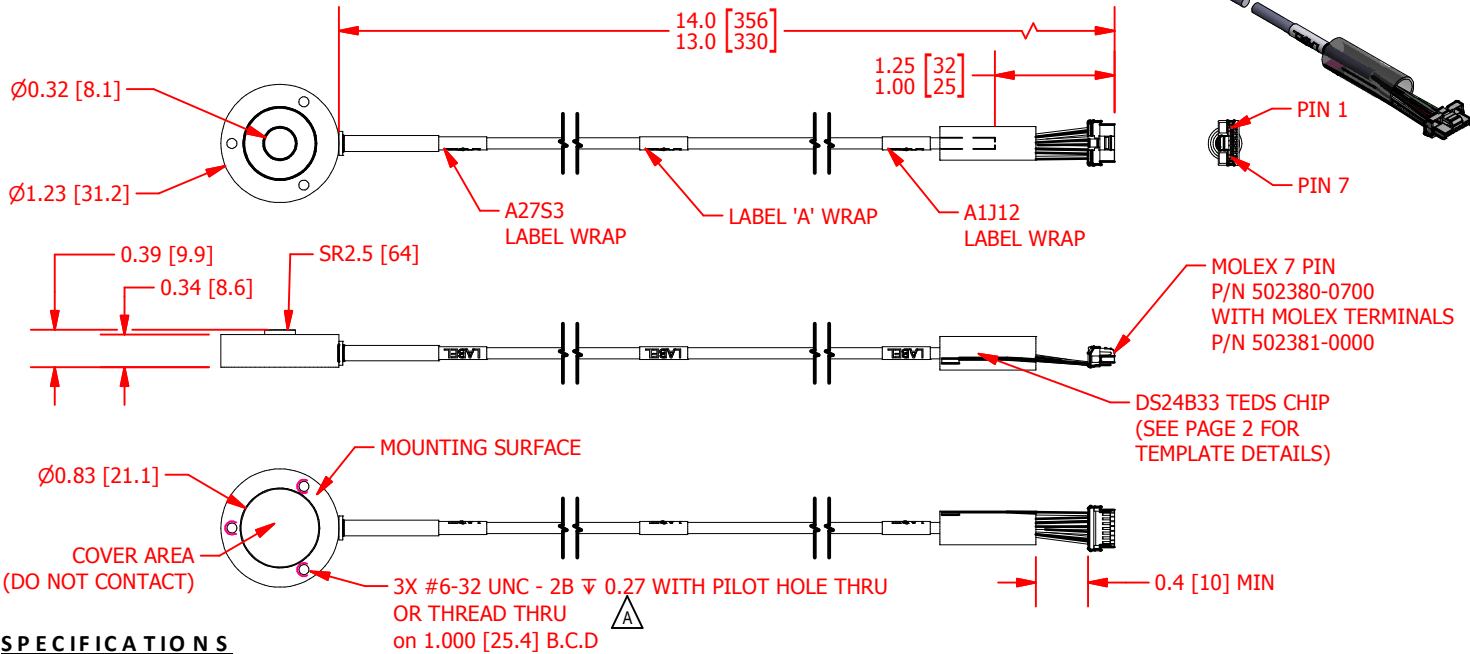
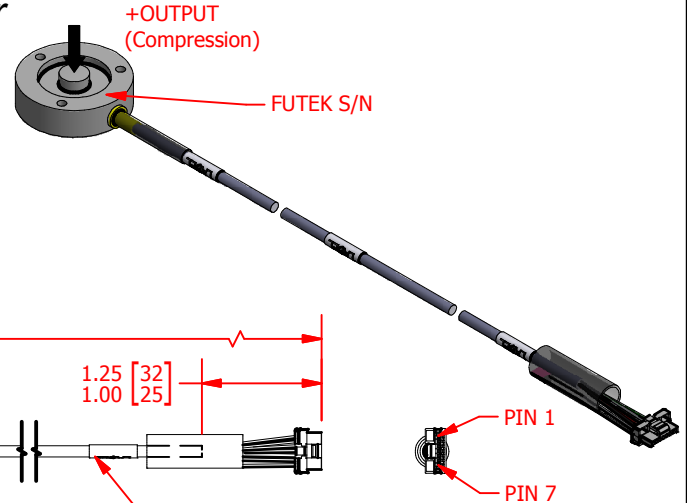


FUTEK MODEL QLA367

ITEM NUMBER: See Chart

Custom Load Button Load Cell with TEDS
IEEE1451.4 and 7 Pin Clik-Mate Molex
Connector

INCH [mm]		R.O.= Rated Output	
WIRING CODE			
+Excitation	-Excitation	+Signal	-Signal
RED (P4)	BLACK (P3)	GREEN (P1)	WHITE (P2)
Shield	TEDS DATA	TEDS GND	
Sensor Floating (P5)	(P6)	(P7)	



SPECIFICATIONS

RATED OUTPUT	2 mV/V nom.
CAPACITY	100 lb [0.445kN]
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	± 3% of R.O.
EXCITATION (VDC OR VAC)	18 MAX
BRIDGE RESISTANCE	700 Ω nom
NONLINEARITY	± 0.15% of R.O.
HYSTERESIS	± 0.15% of R.O.
NONREPEATABILITY	± 0.05% of R.O.
TEMP. SHIFT ZERO	± 0.01% of R.O./°F (± 0.018 of R.O./°C)
TEMP. SHIFT SPAN	± 0.02% of LOAD/°F (± 0.036 of LOAD/°C)
COMPENSATED TEMP.	60 to 160 °F (16 to 71 °C)
OPERATING TEMP	-40 to 185 °F (-40 to 85 °C)
MATERIAL	17-4ph S.S. (Flexure)
CABLE: 28 AWG, 4 Conductor Braided Shielded PVC Cable with 7 Pin Clik-Mate Molex Connector	
CALIBRATION / SHUNT	Calibration Compression 5pt (4, 10, 16, 21.9, 100 lb) / 100 Kohm
ROHS	YES per Customer Document 908-0000-031
CE	YES
ISO 13485 COMPLIANCE	YES
IPC/WHMA-A-620 COMPLIANCE	YES (Cable and Connector Assembly)
TEDS IEEE 1451.4	YES (Includes Temp Shift Zero, Span and Shunt Cal Info-Details page 2)
IP RATING	IP 65 (Sensor Side only)
EXTENDED WARRANTY	5 yrs

ITEM#	Gage Type	Label A
QSH01674	Conventional	215-3231-001 'X' W150
QSH01632	Custom Integrated Circuit	215-3059-001 'X' W150

'X' = Customer Drawing Revision

CUSTOMER APPROVAL- COMPANY:

CUSTOMER APPROVAL- NAME / DATE:

REVISIONS: (Refer to dwg # revision sheet)

A 6-14-13

OUTLINE DRAWING

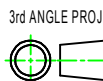
STANDARD NOTES: (Unless Otherwise Specified)

ALL DIMENSIONS ARE IN INCHES
DRAWING INTERPRETATION DIMS. PER ASME-Y14.5M
REMOVE BURRS AND BREAK SHARP EDGES .005 - .015
THREADS PER HANDBOOK H-28
DIMENSIONS ARE SHOWN AFTER PLATING

ANGLE:
± 1/2°

CHAMFER:
± 5°

TOLERANCE:
X ± 0.1"
XX ± 0.01"
XXX ± 0.005"



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FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.
10 THOMAS, IRVINE, CA 92618 USA
Phone: (949) 465-0900
Fax: (949) 465-0905

MODEL: QLA367	DWG No.: F01351-A
DRAWN BY: R. Walker	CREATED DATE: 5/30/2013
APPROVED BY: J. Mokhbery	APPROVED DATE: 6/3/2013
CHECKED BY:	CAGE: 1X8M6 SHEET: 1 OF 2

FUTEK MODEL QLA367

ITEM NUMBER: See Chart

Custom Load Button Load Cell with TEDS
IEEE1451.4 and 7 Pin Clic-Mate Molex
Connector

INCH [mm] R.O.= Rated Output

ISO/IEC/IEEE 21451-4							
FUTEK Basic TEDS summary							
Function	Select	Property/Command	Description	Access	Bits	Data type (and range)	Units
Basic TEDS	—	—	Manufacturer ID	CAL	14	Integer (17–16381) FUTEK = 55	—
	—	—	Product Type	CAL	5	Chr5 (A–Z)	—
	—	—	Product Category	CAL	10	Chr5 (A–Z)	—
	—	—	Product Series	CAL	11	Integer (0–999) 1000–2047 are unused	—
	—	—	Serial number	CAL	24	Integer (0–16777215)	—
Total bits required for TEDS (range):					64 bits		

Bridge sensors template (ID = 33) summary							
Function	Select	Property/Command	Description	Access	Bits	Data type (and range)	Units
ID	—	TEMPLATE	Template ID	—	8	Integer (value = 33)	—
Measurement	Select Case— Physical Measurand				6	Select Case	—
	Cases 0-45	%MinPhysVal	Minimum physical value	CAL	32	Single	Various
Electrical signal output	—	%MaxPhysVal	Maximum physical value	CAL	32	Single	Various
	—	%ElecSigType	Transducer Electrical Signal Type	ID	—	Assign = 3, "Bridge Sensor"	—
	Select Case— Full-Scale Electrical Value Precision				2	Select Case	—
	Case 2	%MinElecVal	Minimum electrical output	CAL	32	Single	V/V
	—	%MaxElecVal	Maximum electrical output	CAL	32	Single	V/V
	—	%MapMeth	Mapping Method	ID	—	Assign = 0, "Linear"	—
	—	%BridgeType	Bridge Type	ID	2	Enumeration: Quarter Half Full	—
	—	%SensorImped	Bridge element impedance	ID	18	ConRes (1 to 26.2k, step 0.1)	Ω
	—	%RespTime	Response Time	ID	6	ConRelRes (1E-6 to 7.9, ±15%)	s
	—	%ExciteAmplNom	Excitation level, nominal	ID	9	ConRes (0.1 to 51.1, step 0.1)	V
Excitation supply	—	%ExciteAmplMin	Excitation level, min.	ID	9	ConRes (0.1 to 51.1, step 0.1)	V
	—	%ExciteAmplMax	Excitation level, max	ID	9	ConRes (0.1 to 51.1, step 0.1)	V
	—	%CalDate	Calibration Date	CAL	16	DATE	—
Calibration information	—	%CalInitials	Calibration initials	CAL	15	CHR5	—
	—	%CalPeriod	Calibration period	CAL	12	UNINT	days
	—	%MeasID	Measurement location ID	USR	11	UNINT	—
Total bits required for TEDS (range):					209 to 251 bits		

Calibration table template (ID = 40) summary						
Function	Property/Command	Description	Access	Bits	Data type (and range)	Units
ID	TEMPLATE	Template ID	—	8	Integer (value = 40)	—
Table data	%CalTable_Domain	Domain parameter	CAL	1	Enumeration: Electrical Physical	—
	STRUCTARRAY CalTable	Number of data sets	CAL	7	Dimension size of 1 to 127	—
	%CalPoint_DomainValue	Domain Calibration Point (% of full span)	CAL	16	ConRes (0 to 100, step 0.0015)	%
	%CalPoint_RangeValue	Range Calibration Deviation (% of full span)	CAL	21	ConRes (–100 to 100, step 0.0001)	%
Total bits required for TEDS (range):				16 to 4715 bits		

User data summary							
Function	Select	Property/Command	Description	Access	Bits	Data type (and range)	Units
User data	—	—	Temperature Shift Zero	CAL	32	Single	% of R.O./°F
	—	—	Temperature Shift Span	CAL	32	Single	% of Load/°F
	—	—	Initial Zero Balance	CAL	32	Single	V/V
	—	—	Shunted Output	CAL	32	Single	V/V
Total bits required for TEDS (range):					128 bits		

CUSTOMER APPROVAL- COMPANY:

CUSTOMER APPROVAL- NAME / DATE:

REVISIONS: (Refer to dwg # revision sheet)

OUTLINE DRAWING

STANDARD NOTES: (Unless Otherwise Specified)

ALL DIMENSIONS ARE IN INCHES

DRAWING INTERPRETATION DIMS. PER ASME-Y14.5M

REMOVE BURRS AND BREAK SHARP EDGES .005 - .015

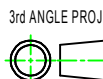
THREADS PER HANDBOOK H-28

DIMENSIONS ARE SHOWN AFTER PLATING

ANGLE:
± 1/2°

CHAMFER:
± .5°

TOLERANCE:
.X ± 0.1"
.XX ± 0.01"
.XXX ± 0.005"



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DWG No.: **F01351-A**

CREATED DATE: 5/30/2013

APPROVED DATE: 6/3/2013

CAGE: 1X8M6 SHEET: 2 OF 2