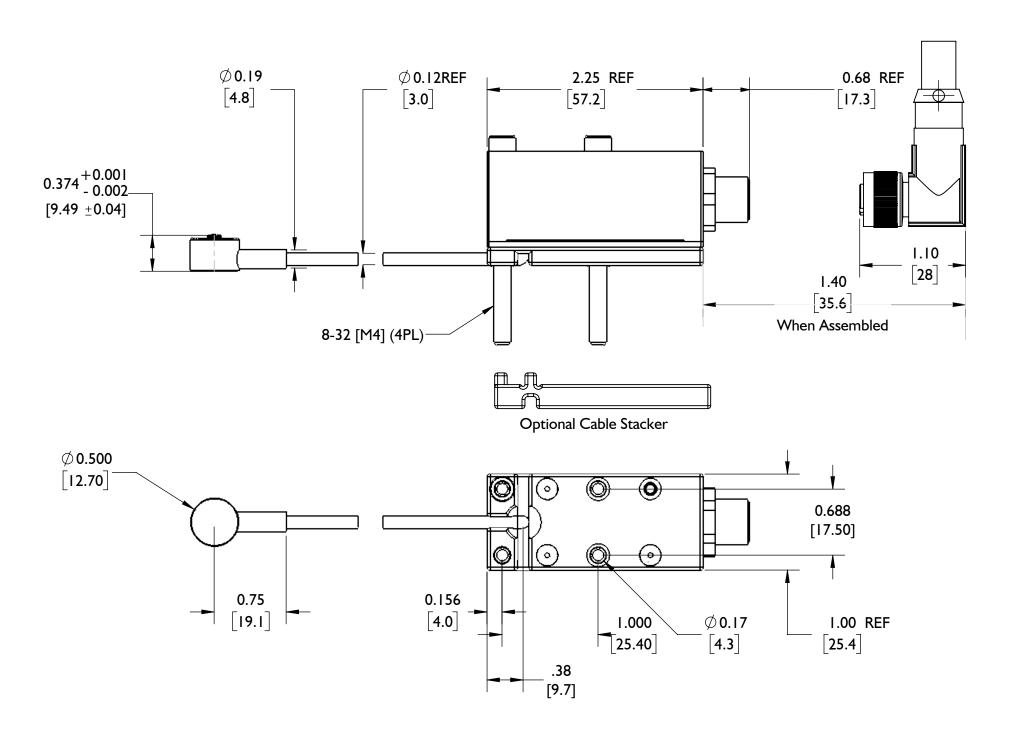
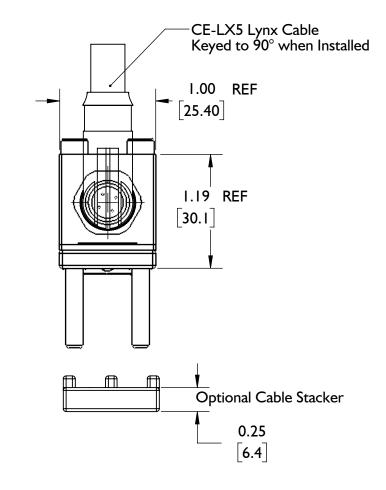
### LS-B-127-XXXX Single-Channel Sensor Installation—Sensor and Optional Cable Stacker Dimensions





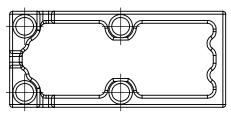
CABLE STACKERS	SCREW LENGTH	CABLE STORED
1	1.75 [45.0]	6.00" [152.4]
2	2.00 [50.0]	12.00" [304.8]
3	2.25 [57.0]	18.00" [457.2]
4	2.50 [64.0]	24.00" [609.6]

- CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
  EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN
  0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
  ENCLOSED EJECTOR BOX SUGGESTED.
  DO NOT SCALE PRINT
  BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
  DIMENSIONS IN INCHES [MM], UNLESS NOTED
  TOLERANCES UNLESS SPECIFIED:

  XXX = ±0.003 [0.08]

  XX = ±0.01 [0.3]

  ANGLES = ±3° 30°



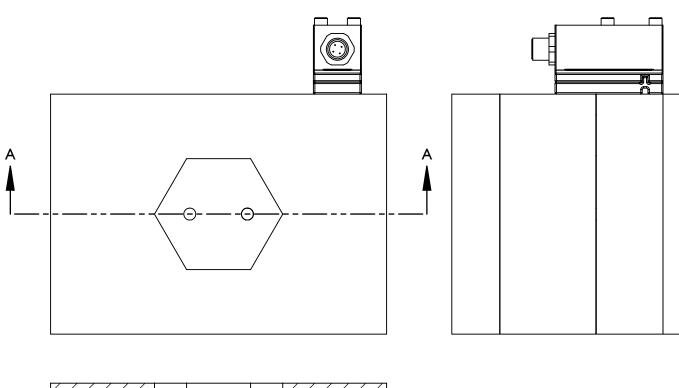
Optional Cable Stacker accomodates up to 4.0" [101.6] of extra cable.

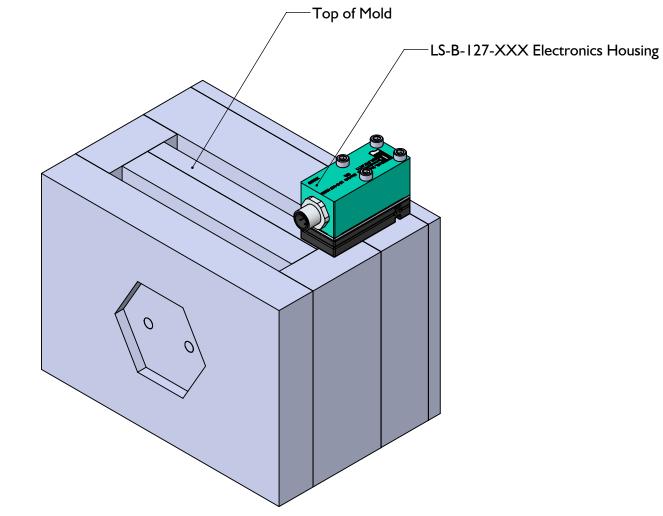


Description: LS-B-127-XXXX Sensor Dimensions Drawn: K.J.Brettschneider

### LS-B-127-XXXX Single-Channel Sensor Installation—Clamp Plate Installation

\*\*CLAMP PLATE INSTALLATION FOR PINS ≤ Ø0.25 [7.0]; PINS >Ø0.25 [7.0] USE HEAD-TO-HEAD INSTALLATION ON SHEET LS-B-127-XXXX-04 & -05.\*\*





**SECTION A-A** SCALE 1:2

- CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
  EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN
  0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS
  SMALLER.

- SMALLER.
  ENCLOSED EJECTOR BOX SUGGESTED.
  DO NOT SCALE PRINT
  BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
  DIMENSIONS IN INCHES [MM], UNLESS NOTED
  TOLERANCES UNLESS SPECIFIED:

  XXX = ±0.003 [0.08]

  XX = ±0.01 [0.3]

  ANGLES = ±3° 30°



Description: LS-B-127-XXXX Sensor Installation Drawn: K.J.Brettschneider

#### LS-B-127-XXXX Single-Channel Sensor Installation—Clamp Plate Installation

REFER TO TABLE D

\*\*CLAMP PLATE INSTALLATION FOR PINS ≤ Ø0.25 [7.0]; PINS >Ø0.25 [7.0] USE HEAD-TO-HEAD INSTALLATION ON SHEET LS-B-127-XXXX-04 & -05.\*\*

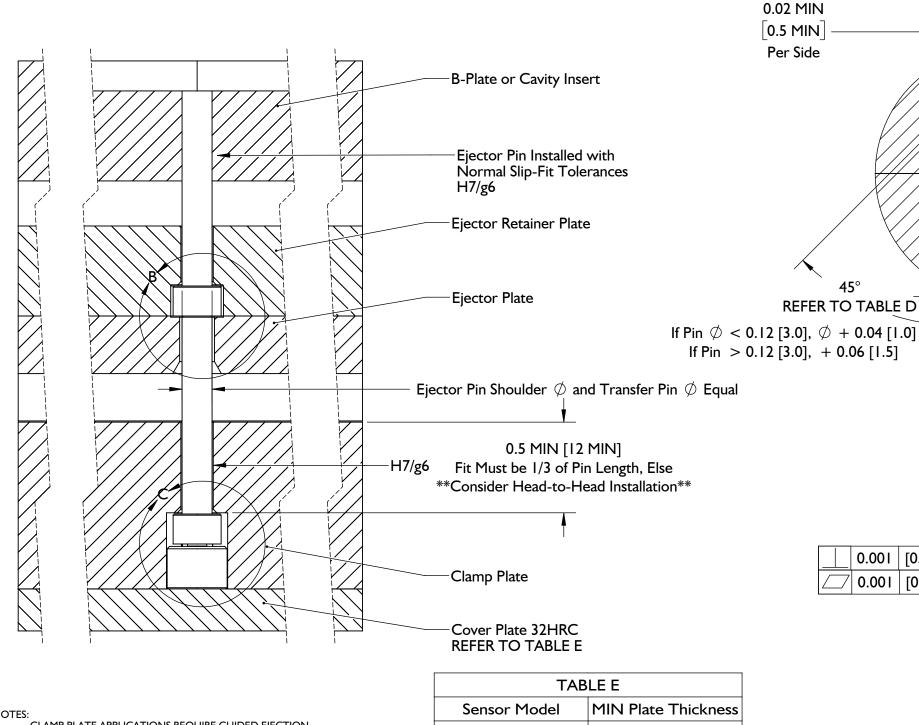


TABLE E			
Sensor Model	MIN Plate Thickness		
LS-B-127-50	0.2 [5]		
LS-B-127-125	0.2 [5]		
LS-B-127-500	0.25 [6.0]		
LS-B-127-2000	0.25 [6.0]		

Refer to Product Manual for Cover Plate Alternatives

TABLE D Ejector Pin ∅ Chamfer Length 0.04-0.08 [1.0-2.0] 0.01 [0.3] 0.10-0.20 [2.5-5.0] 0.02 [0.4] 0.01 MIN 0.24-0.40 [6.0-10.0] 0.025 [0.6] 0.3 MIN

Standard Fit

Counterbore in Ejector Plate Transfer Pin Flush with Ejector Plate

Counterbore  $\emptyset = \text{Pin Head } \emptyset + 0.04 \text{ [I.0] MIN}$ 

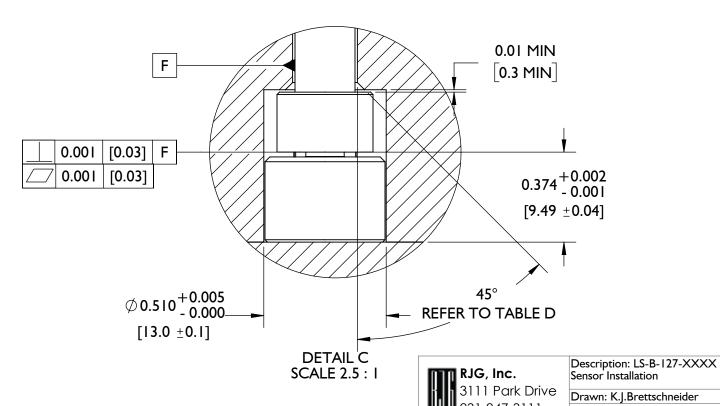
Check: M.Groleau Date: 07.21.2022

Part Thickness < 0.05 [1.5], 1/5 of Thickness

Part Thickness > 0.05 [1.5], 0.01 [0.3]

30° Chamfer Depth Equal to Pin Ø

DETAIL B SCALE 2.5 : I



#### NOTES:

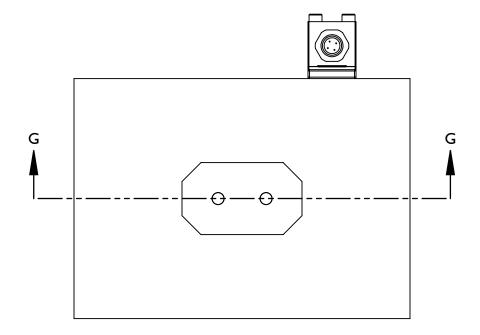
CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN
0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS

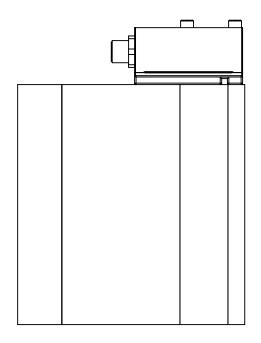
ENCLOSED EJECTOR BOX SUGGESTED.
DO NOT SCALE PRINT

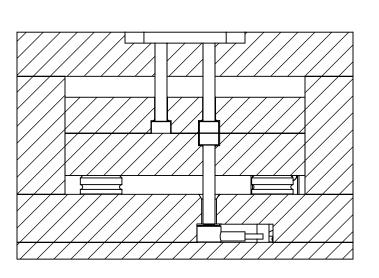
BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX

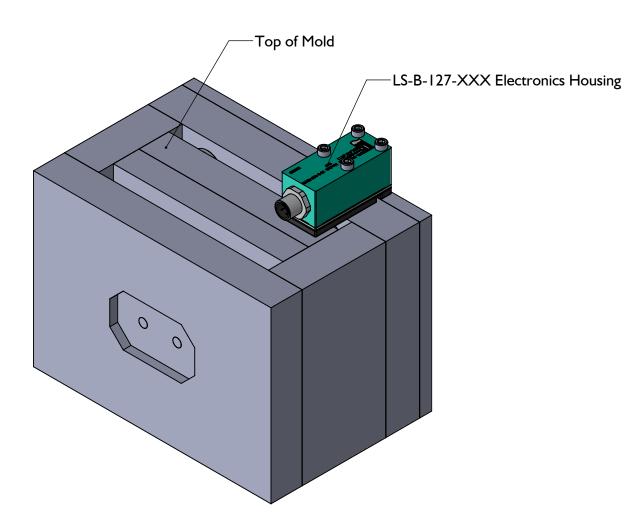
DIMENSIONS IN INCHES [MM], UNLESS NOTED TOLERANCES UNLESS SPECIFIED:  $XXX = \pm 0.003 [0.08]$   $XX = \pm 0.01 [0.3]$   $ANGLES = \pm 3^{\circ} 30^{\circ}$ 

# LS-B-I27-XXXX Single-Channel Sensor Installation—Head-to-Head Installation \*\*CLAMP PLATE INSTALLATION FOR PINS ≤ Ø0.25 [7.0]; PINS > Ø0.25 [7.0] USE HEAD-TO-HEAD INSTALLATION .\*\*









SECTION G-G

- CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
  EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN
  0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS
  SMALLER.

SMALLER.
ENCLOSED EJECTOR BOX SUGGESTED.
DO NOT SCALE PRINT
BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
DIMENSIONS IN INCHES [MM], UNLESS NOTED
TOLERANCES UNLESS SPECIFIED:

XXX = ±0.003 [0.08]

XX = ±0.01 [0.3]

ANGLES = ±3°30°



Description: LS-B-127-XXXX Sensor Installation

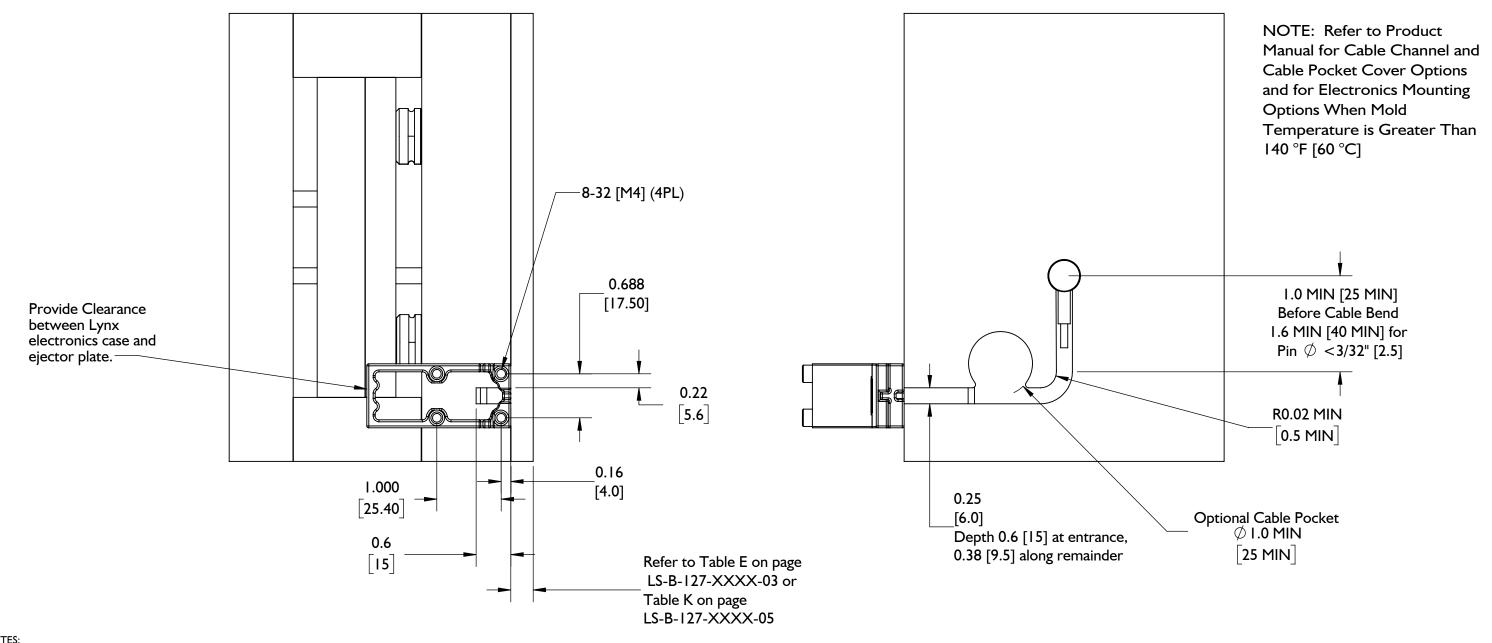
Drawn: K.J.Brettschneider Check: M.Groleau

Date: 07.21.2022

#### Drawing Title: LS-B-127-XXXX-05 LS-B-127-XXXX Single-Channel Sensor Installation—Head-to-Head Installation \*\*CLAMP PLATE INSTALLATION FOR PINS ≤ Ø0.25 [7.0]; PINS >Ø0.25 [7.0] USE HEAD-TO-HEAD INSTALLATION .\*\* Standard Fit 0.02 MIN 45° Part Thickness < 0.05 [1.5], 1/5 of Thickness [0.5 MIN] — **REFER TO** Part Thickness > 0.05 [1.5], 0.01 [0.3] TABLE J Per Side **B-Plate or Cavity Insert** TABLE I Ejector Pin Installed with Ejector Pin ∅ Chamfer Length Normal Slip-Fit Tolerances 0.04-0.08 [1.0-2.0] 0.01 [0.3] H7/g6 0.10-0.20 [2.5-5.0] 0.02 [0.4] Ejector Retainer Plate 0.24-0.40 [6.0-10.0] 0.25 [0.6] 0.01 MIN 0.3 MIN Counterbore in Ejector Plate Transfer Pin Flush with Ejector Plate 45° 0.5 MIN **Ejector Plate** REFER TO [12 MIN] 0.02 MIN TABLE | 0.5 MIN 0.5 MIN [12 MIN] Per Side -H7/g6 Fit Must be I/3 of Pin Length MIN **DETAIL H** 30° Chamfer SCALE 3: I Depth Equal to Pin $\emptyset$ Transfer Pin Ø Ejector Pin Shoulder Ø and Transfer Pin Ø Equal 0.04 IF < 0.12 [1.0 IF < 3.0]0.06 IF > 0.12 [1.5 IF > 3.0]0.01 MIN 0.3 MIN Clamp Plate 0.001 [0.03] L Cover Plate 32HRC 0.001 | [0.03] $0.374^{+0.002}_{-0.001}$ REFER TO TABLE K 9.49 ±0.04 **TABLE K** Sensor Model MIN Plate Thickness CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER. LS-B-127-50 0.2 [5] $\emptyset$ 0.510 $^{+0.005}_{-0.000}$ LS-B-127-125 0.2 [5] ENCLOSED EJECTOR BOX SUGGESTED. DO NOT SCALE PRINT BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX DIMENSIONS IN INCHES [MM], UNLESS NOTED TOLERANCES UNLESS SPECIFIED: $[13.0 \pm 0.1]$ Description: LS-B-127-XXXX Sensor Installation LS-B-127-500 0.25 [6.0] **DETAIL I** RJG, Inc. SCALE 2: I LS-B-127-2000 0.25 [6.0] 3111 Park Drive Drawn: K.J.Brettschneider Refer to Product Manual for Cover Plate Alternatives $XXX = \pm 0.003 [0.08]$ $XX = \pm 0.01 [0.3]$ $ANGLES = \pm 3^{\circ} 30^{\circ}$ Check: M.Groleau Date: 07.21.2022

#### LS-B-127-XXXX Single-Channel Sensor Installation—Clamp Plate/Head-to-Head Installation

NOTE: Lynx sensor electronics case mounted in the orientation as shown to allow access to the Lynx cable connection. Refer to Product Manual for alternate electronics case mounting options.



- CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
  EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN
  0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS
  SMALLER.

- SMALLER.
  ENCLOSED EJECTOR BOX SUGGESTED.
  DO NOT SCALE PRINT
  BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
  DIMENSIONS IN INCHES [MM], UNLESS NOTED
  TOLERANCES UNLESS SPECIFIED:

  XXX = ±0.003 [0.08]

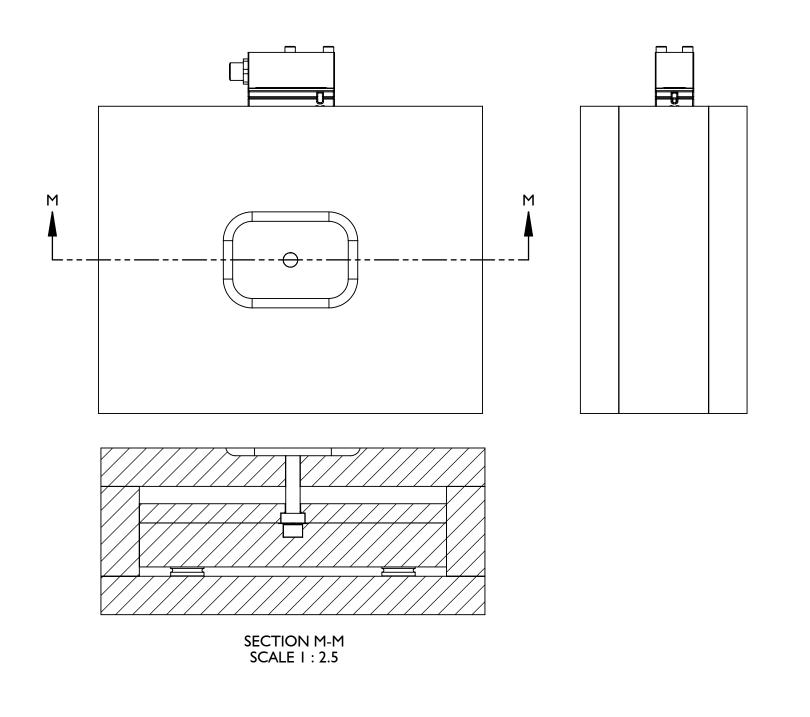
  XX = ±0.01 [0.3]

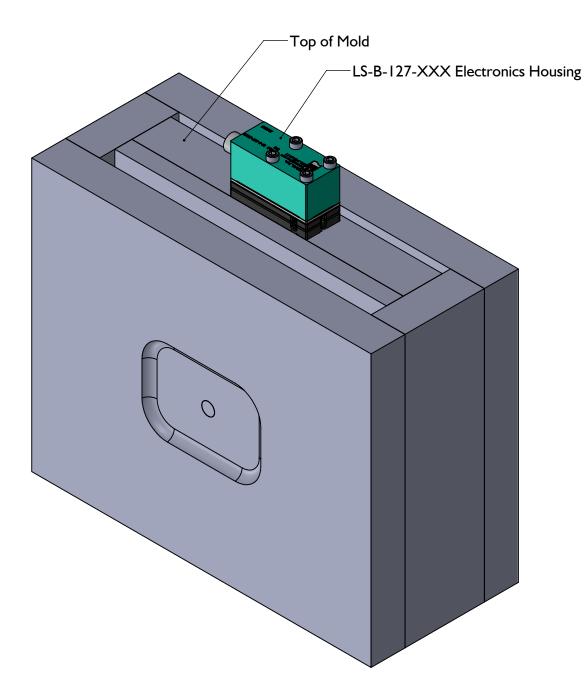
  ANGLES = ±3° 30°



Description: LS-B-127-XXXX Sensor Installation Drawn: K.J.Brettschneider

### LS-B-127-XXXX Single-Channel Sensor Installation—Ejector Plate Installation





EJECTOR PIN AND SENSOR CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.

SMALLER.
DO NOT SCALE PRINT
BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
DIMENSIONS IN INCHES [MM], UNLESS NOTED
TOLERANCES UNLESS SPECIFIED:

XXX = ±0.003 [0.08]

XX = ±0.01 [0.3]

ANGLES = ±3° 30°



Description: LS-B-127-XXXX Sensor Installation Drawn: K.J.Brettschneider

Check: M.Groleau

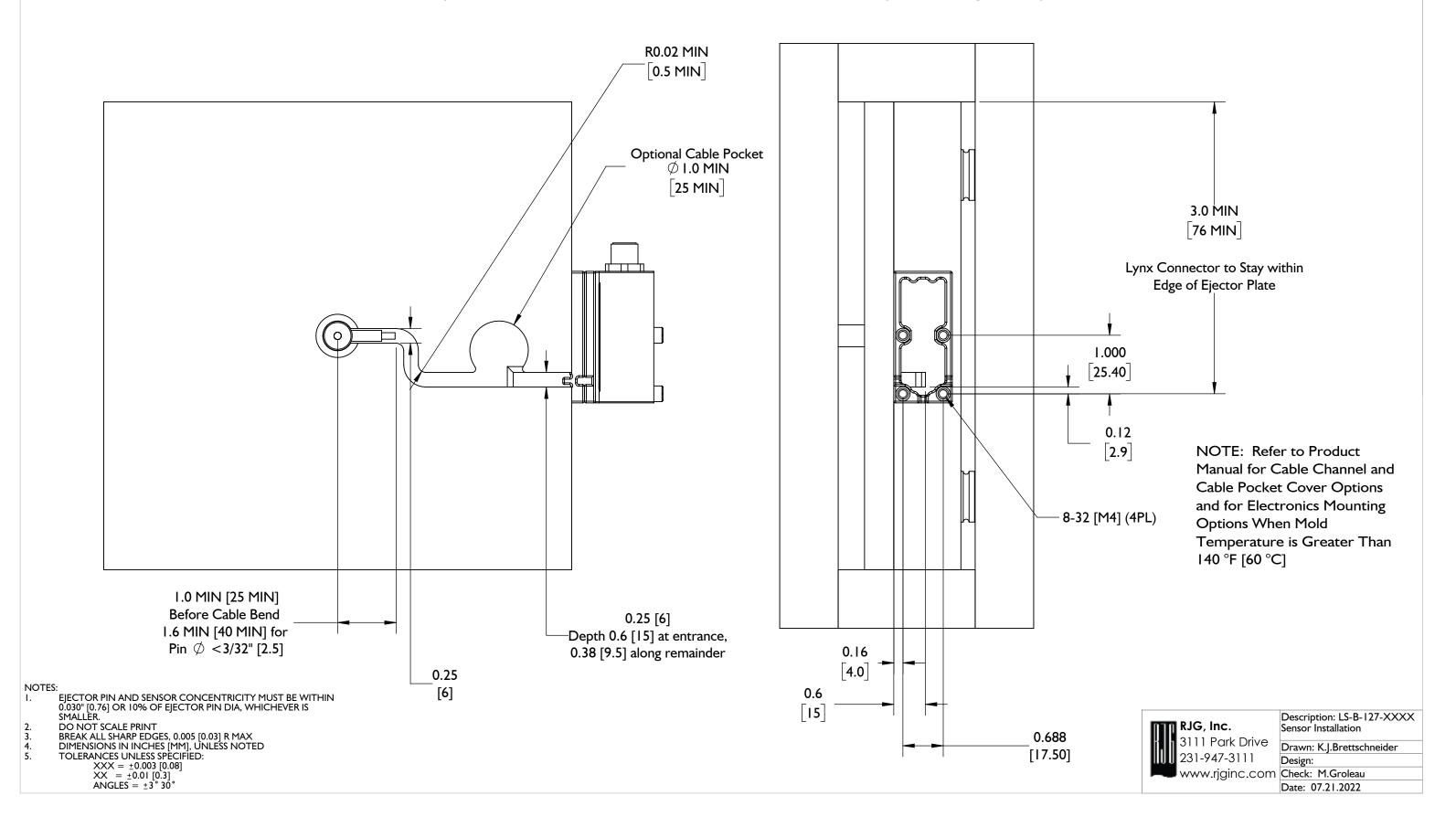
Date: 07.21.2022

#### Drawing Title: LS-B-127-XXXX-08 LS-B-127-XXXX Single-Channel Sensor Installation—Ejector Plate Installation Ejector Pin Head $\emptyset$ + 0.125 [3] if DIA $\geq 0.50 [12.7]$ B-Plate or Cavity Insert 0.01 MIN -[0.3 MIN] Ejector Pin—Installed with Normal per side Slip-Fit Tolerances $0.510^{+0.005}_{-0.000}$ HŻ/g6 $[13.0 \pm 0.1]$ Q Part Thickness < 0.05 [1.5], 1/5 of Thickness Part Thickness > 0.05 [1.5], 0.01 [0.3] Ejector Retainer Plate Ρ 0.02 MIN 0.5 MIN 0.001 [0.03] Q 7 0.001 | [0.03] 0.374 + 0.002 Ejector Plate [9.49 ±0.04] 0.001 [0.03] P 0.001 | [0.03] 45° **REFER TO** Clamp Plate **TABLE O R0.005 MAX** 0.1 MAX TABLE O Ejector Pin ∅ Chamfer Length 0.04-0.08 [1.0-2.0] 0.01 [0.3] **DETAIL N** SCALE 3: I 0.10-0.20 [2.5-5.0] 0.02 [0.4] 0.24-0.40 [6.0-10.0] 0.25 [0.6] EJECTOR PIN AND SENSOR CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER. Description: LS-B-127-XXXX Sensor Installation SMALLER. DO NOT SCALE PRINT BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX DIMENSIONS IN INCHES [MM], UNLESS NOTED TOLERANCES UNLESS SPECIFIED: XXX = ±0.003 [0.08] XX = ±0.01 [0.3] ANGLES = ±3° 30° RJG, Inc. 3111 Park Drive Drawn: K.J.Brettschneider Check: M.Groleau Date: 07.21.2022

### Drawing No: LS-B-127-XXXX-09

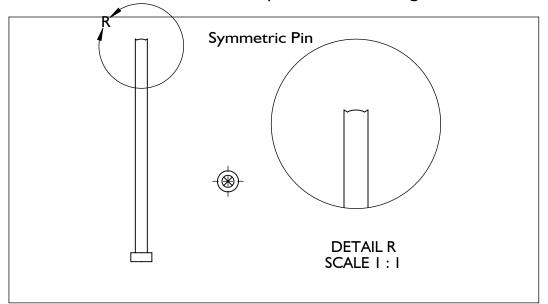
#### LS-B-127-XXXX Single-Channel Sensor Installation—Ejector Plate Installation

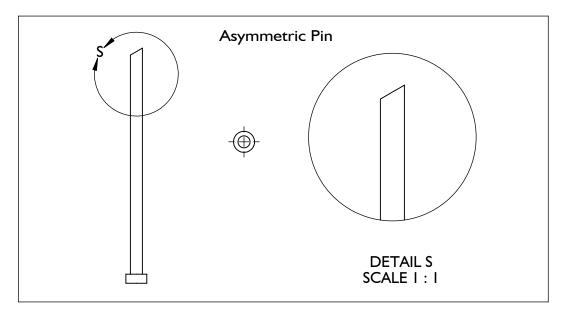
NOTE: Lynx sensor electronics case mounted in the orientation as shown to prevent damage to components.

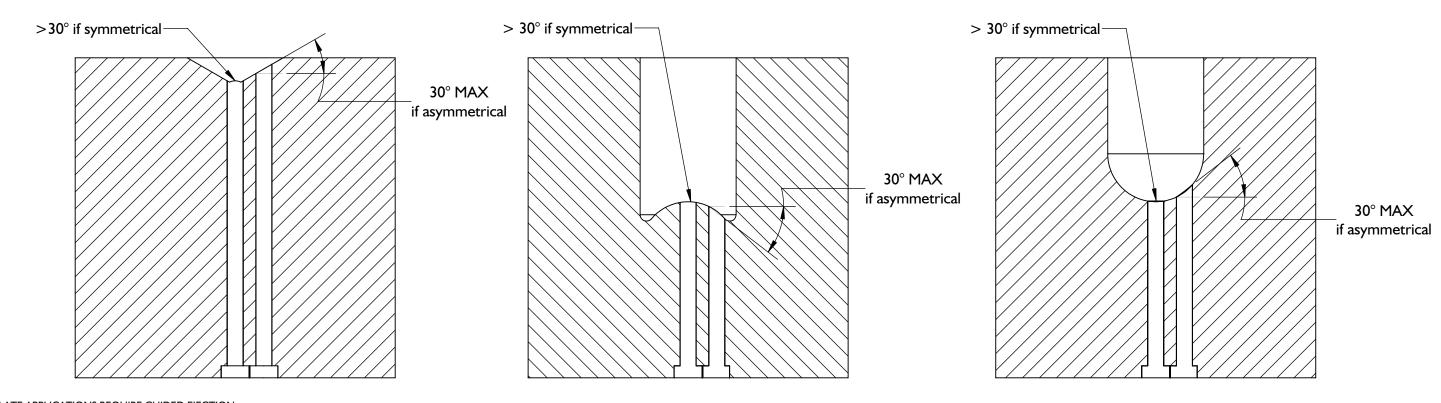


#### LS-B-127-XXXX Sensor Installation—Contoured Pin Angle Specification

NOTE: Contoured/angled pins (asymmetric) not to exceed 30° MAX unless pin design is symmetrical to provide even, downward pressure across pin surface to loading of sensor. Contact RJG Customer Support for assistance in verification of contoured/angled pin use.







- CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
  EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN
  0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS
  SMALLER.

- ENCLOSED EJECTOR BOX SUGGESTED.
  DO NOT SCALE PRINT
  BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
  DIMENSIONS IN INCHES [MM], UNLESS NOTED
  TOLERANCES UNLESS SPECIFIED:

 $XXX = \pm 0.003 [0.08]$   $XX = \pm 0.01 [0.3]$   $ANGLES = \pm 3^{\circ} 30^{\circ}$ 

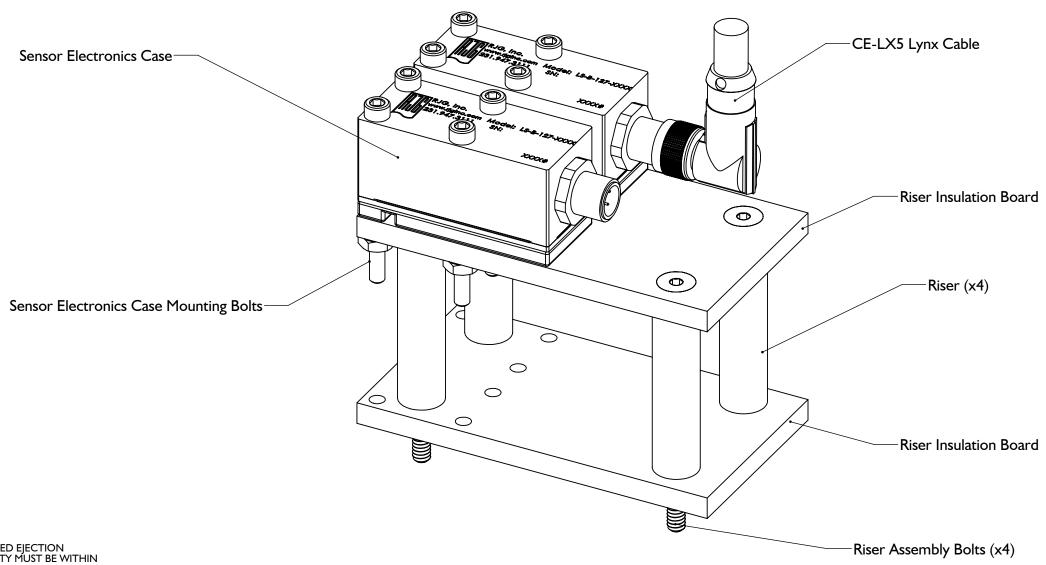
RJG, Inc. 3111 Park Drive www.rjginc.com

Description: LS-B-127-XXXX Sensor Installation

Drawn: K.J.Brettschneider

#### LS-B-127-XXXX-H Sensor Installation—Sensor Electronics Housing Installation for High Temperatures

NOTE: The sensor electronics housing must be kept below 140 °F (60 °C) for all LS-B-127-XXXX and LS-B-127-XXXX-H sensor models. Refer to the drawing below as a guide; RJG does NOT provide riser assembly pictured below—riser assembly and design is responsiblity of customer. Contact RIG Customer Support for assistance with high-temperature sensor electronics housing protection designs.



CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN
0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS
SMALLER.

ENCLOSED EJECTOR BOX SUGGESTED.
DO NOT SCALE PRINT

BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX

DIMENSIONS IN INCHES [MM], UNLESS NOTED TOLERANCES UNLESS SPECIFIED:

 $XXX = \pm 0.003 [0.08]$   $XX = \pm 0.01 [0.3]$   $ANGLES = \pm 3^{\circ} 30^{\circ}$ 



Description: LS-B-127-XXXX Sensor Installation

Drawn: K.J.Brettschneider