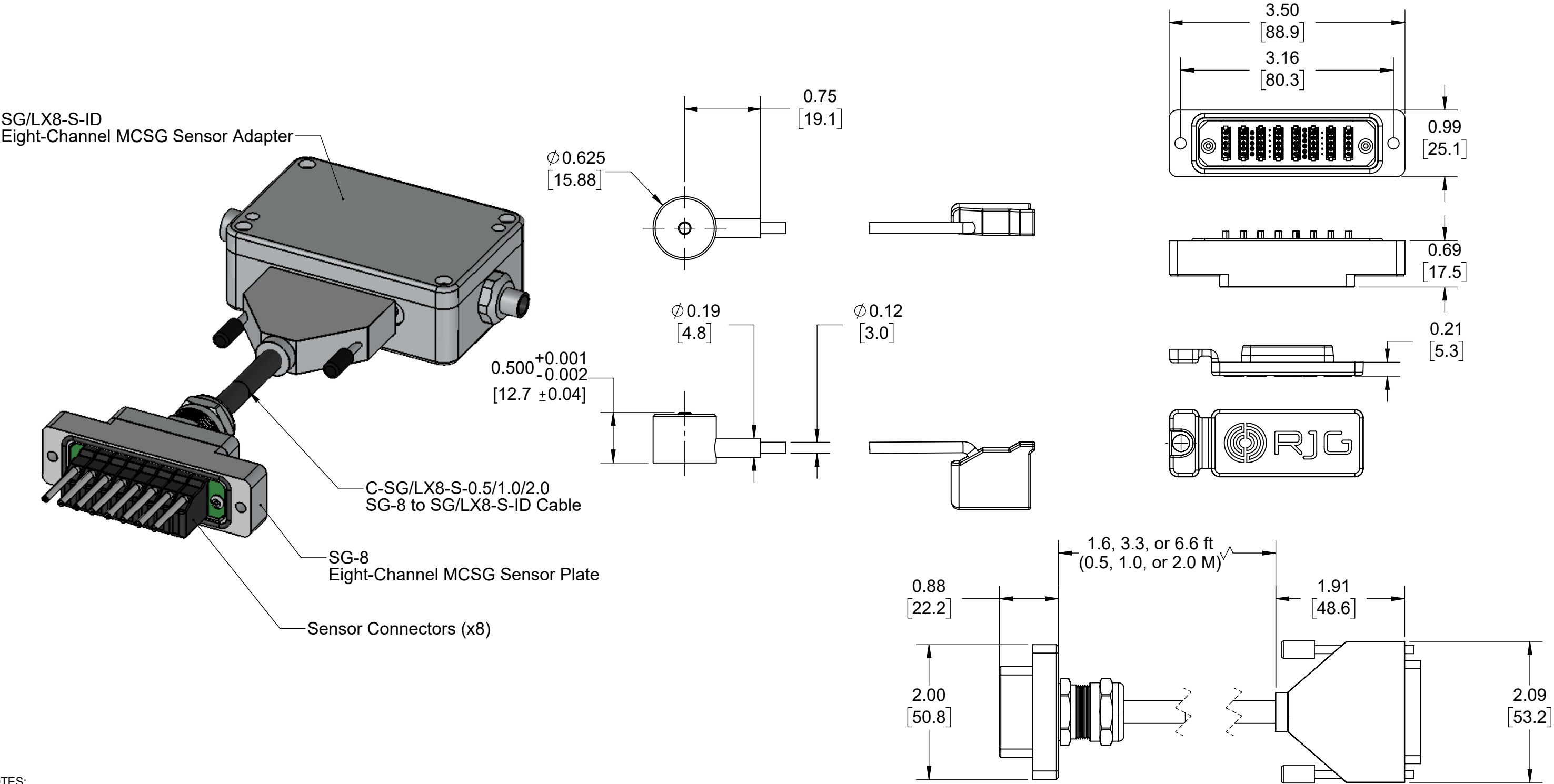


Multi-Channel Strain Gage 4,000 lb. Sensor (MCSG-4000) Installation—Sensor, Sensor Connector, and Sensor Cable Dimensions



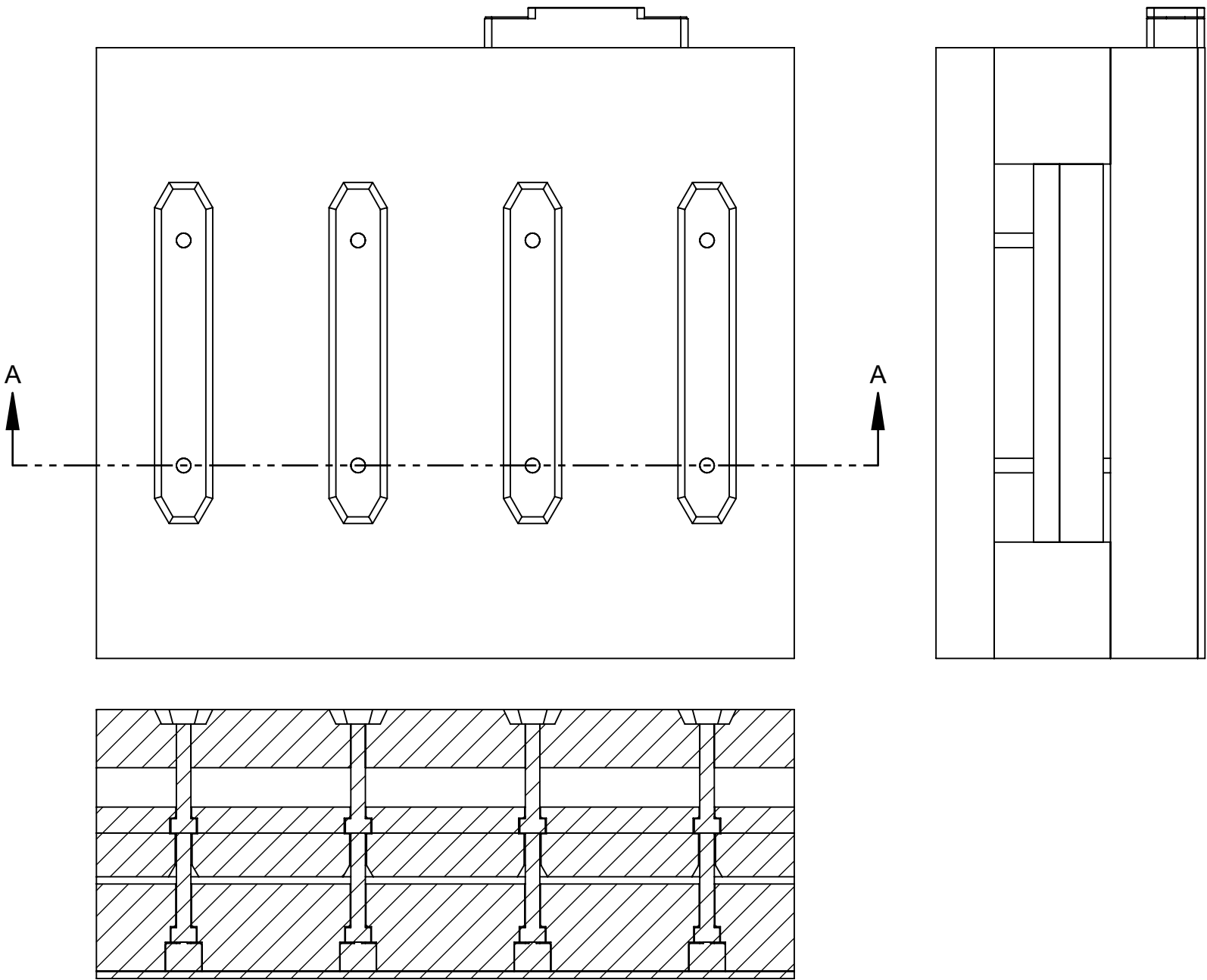
- NOTES:
1. CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
 2. EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
 3. ENCLOSED EJECTOR BOX SUGGESTED.
 4. DO NOT SCALE PRINT
 5. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
 6. DIMENSIONS IN INCHES [MM], UNLESS NOTED
 7. TOLERANCES UNLESS SPECIFIED:
XXX = ±0.003 [0.08]
XX = ±0.01 [0.3]
ANGLES = ±3° 30°



Description: MCSG-4000
Sensor Installation
Drawn: K.J.Brettschneider
Design:
Check: M.Groleau
Date: 04.02.2025

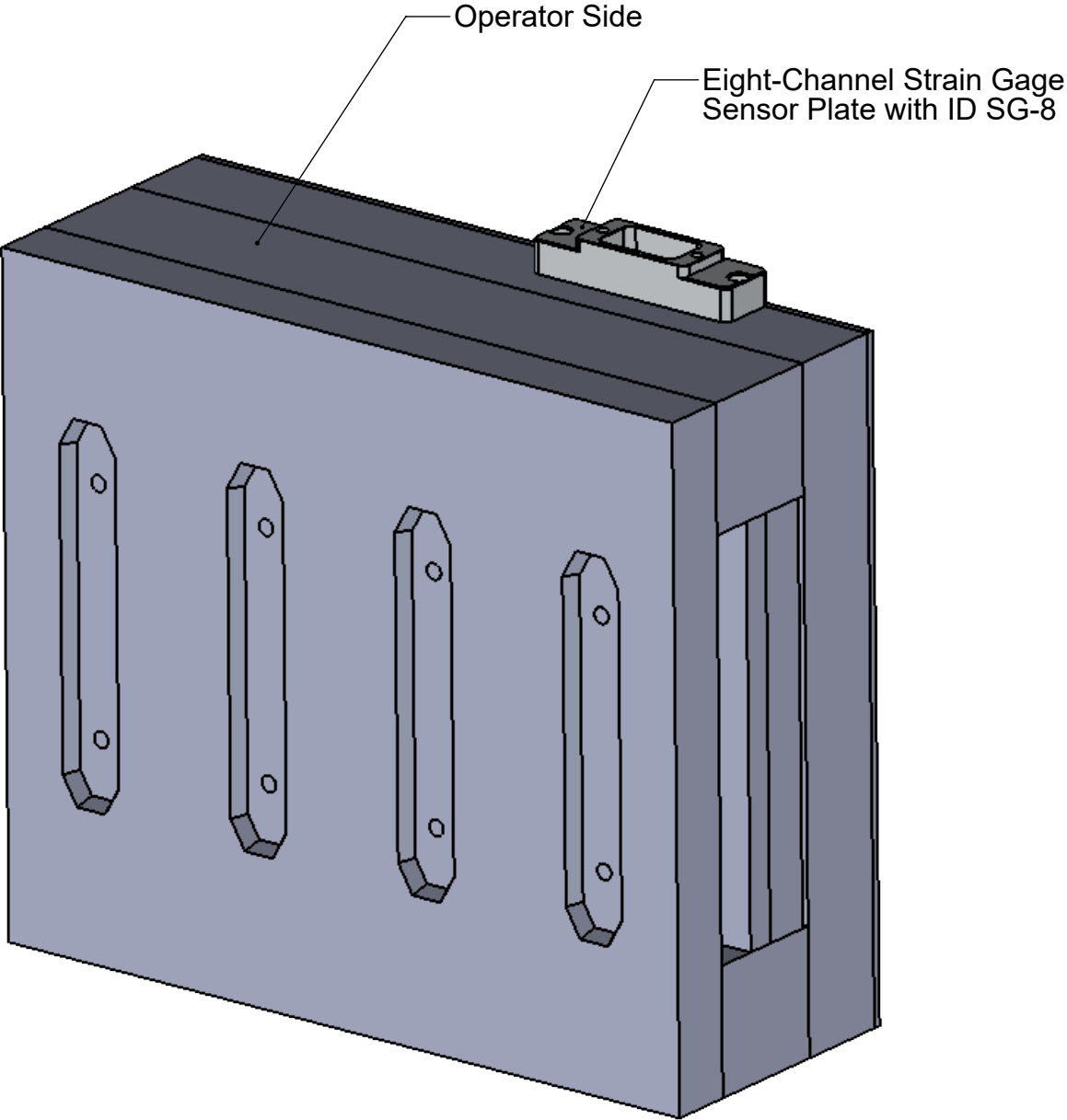
Drawing Title: MCSG-4000-02

Multi-Channel Strain Gage 4,000 lb. Sensor (MCSG-4000) Installation—Clamp Plate Installation



SECTION A-A
SCALE 1 : 2.5

- NOTES:
1. CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
 2. EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
 3. ENCLOSED EJECTOR BOX SUGGESTED.
 4. DO NOT SCALE PRINT
 5. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
 6. DIMENSIONS IN INCHES [MM], UNLESS NOTED
 7. TOLERANCES UNLESS SPECIFIED:
XXX = ± 0.003 [0.08]
XX = ± 0.01 [0.3]
ANGLES = $\pm 3^\circ$ 30°

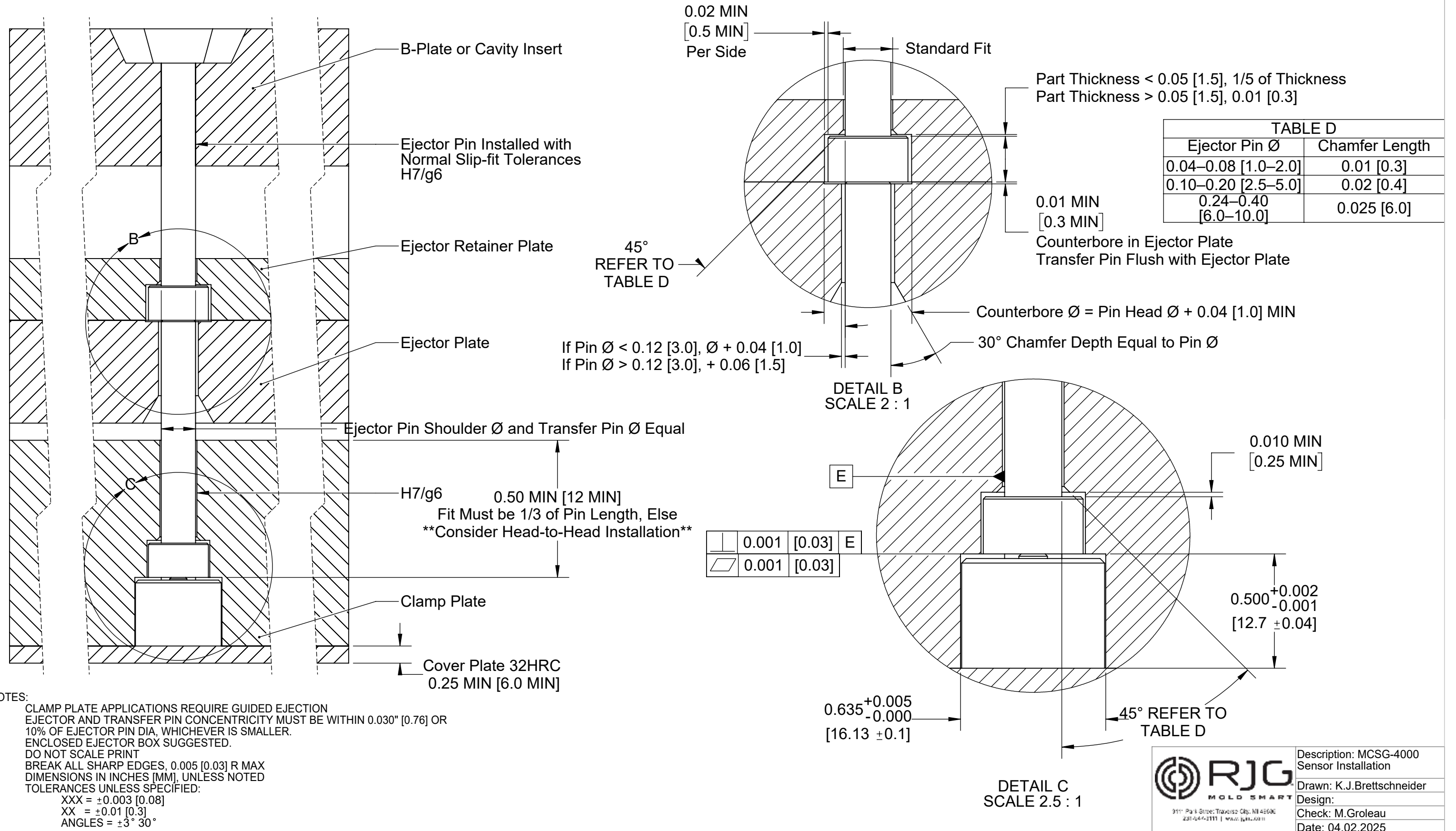


Description: MCSG-4000
Sensor Installation
Drawn: K.J.Brettschneider
Design:
Check: M.Groleau
Date: 04.02.2025

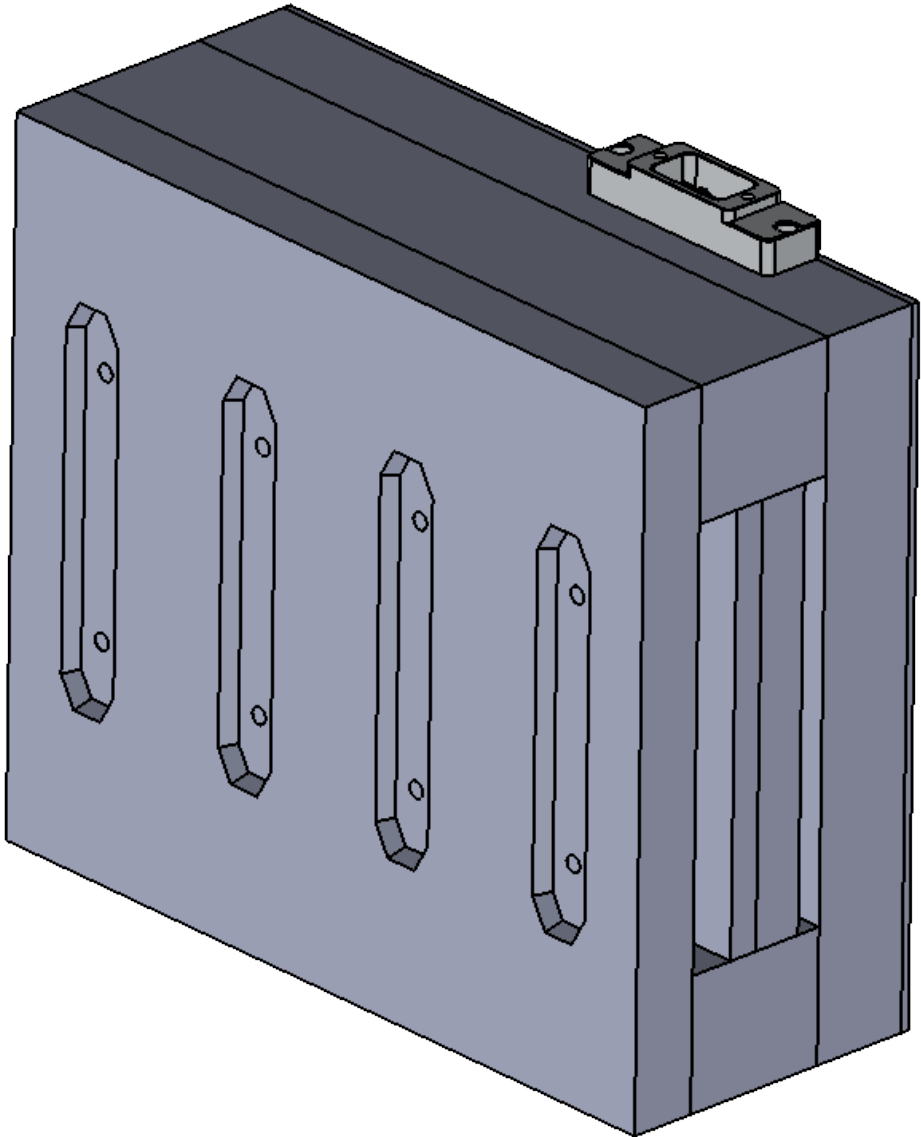
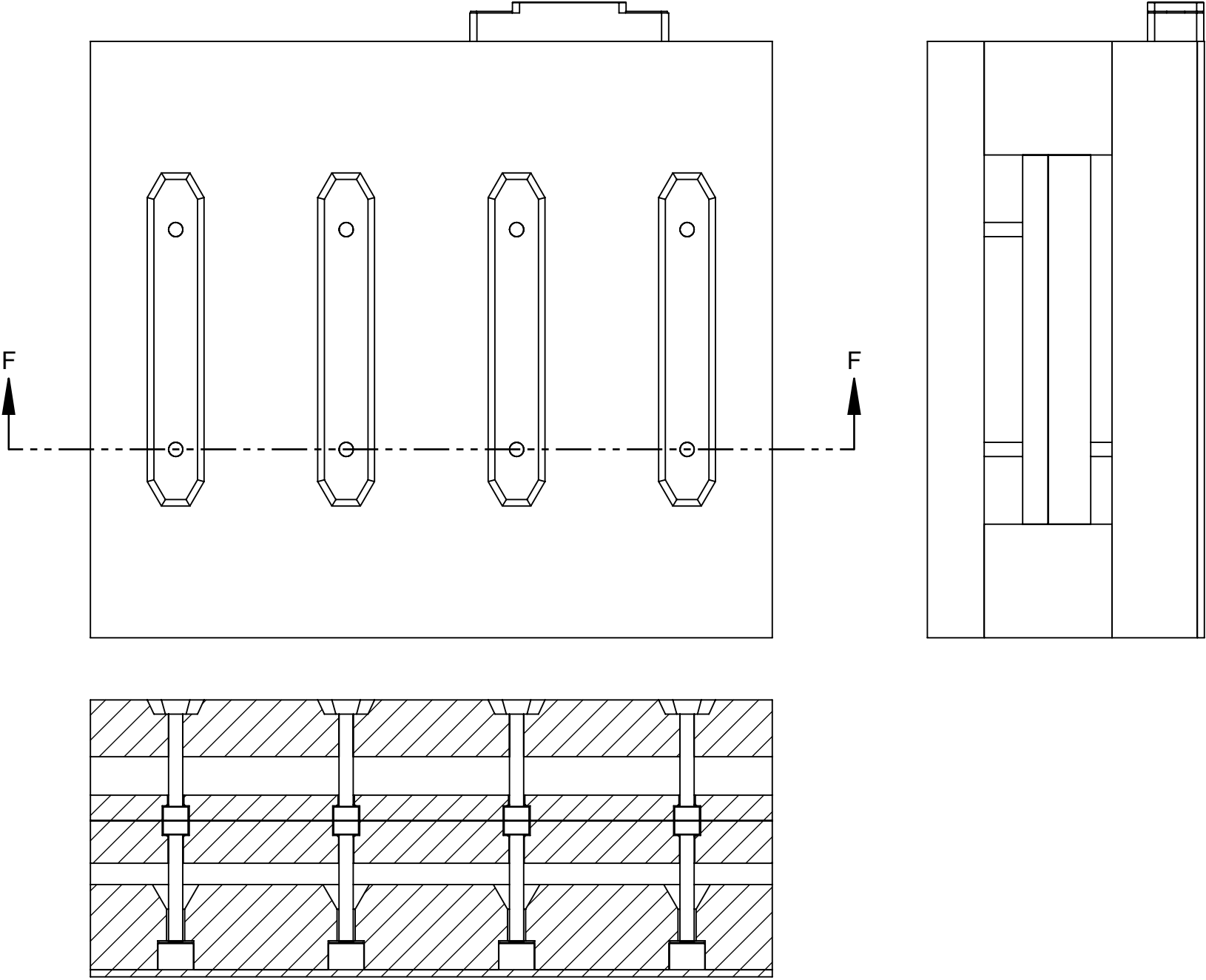
Drawing Title: MCSG-4000-03

Multi-Channel Strain Gage 4,000 lb. Sensor (MCSG-4000) Installation—Clamp Plate Installation

****CLAMP PLATE INSTALLATION FOR PINS $\leq \varnothing 0.25$ [7.0]; PINS $> \varnothing 0.25$ [7.0] USE HEAD-TO-HEAD INSTALLATION ON SHEET MCSG-4000-04 & -05.****



Multi-Channel Strain Gage 4,000 lb. Sensor (MCSG-4000) Installation—Head-to-Head Installation
****CLAMP PLATE INSTALLATION FOR PINS ≤ Ø0.25 [7.0]; PINS >Ø0.25 [7.0] USE HEAD-TO-HEAD INSTALLATION.****



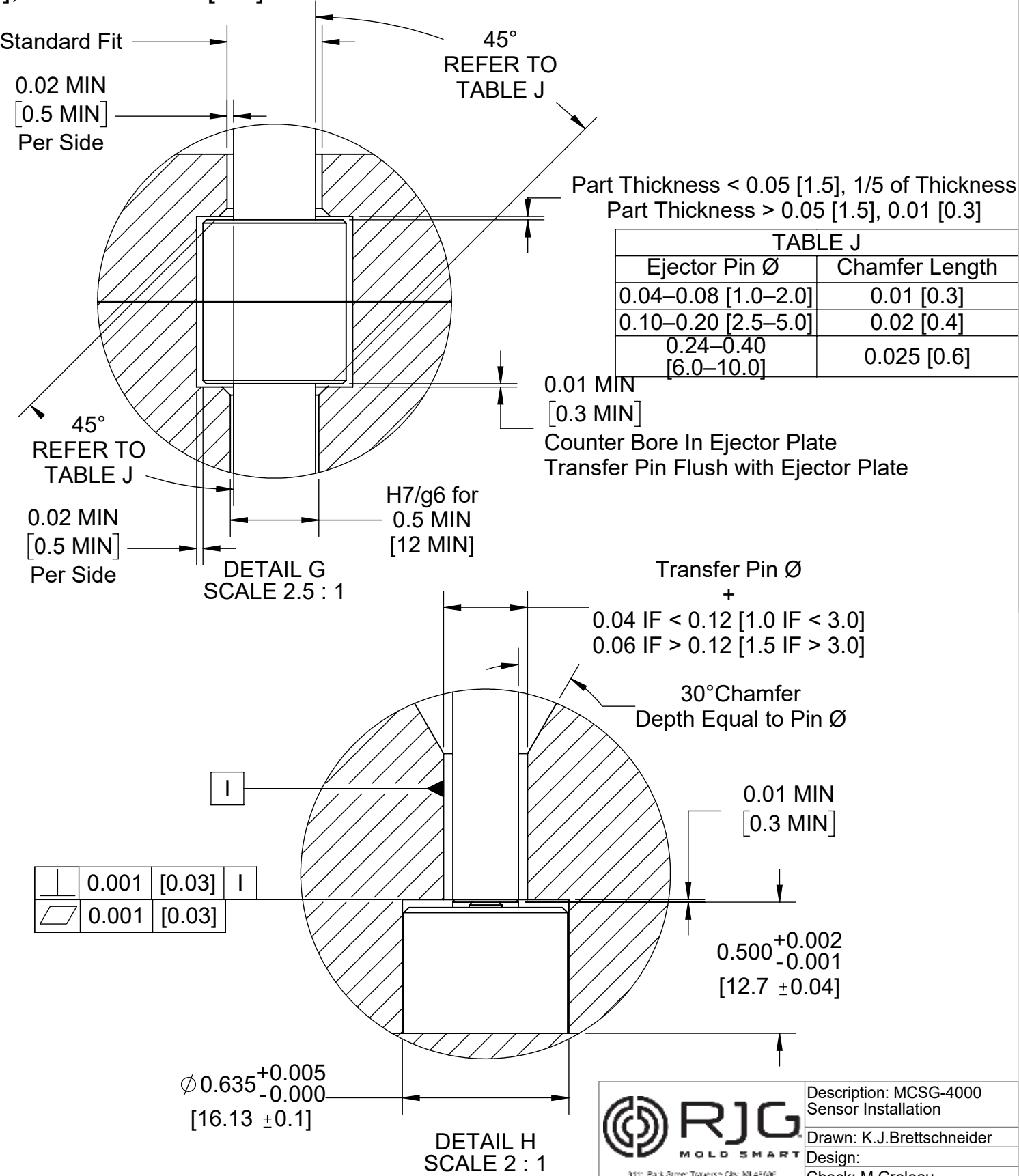
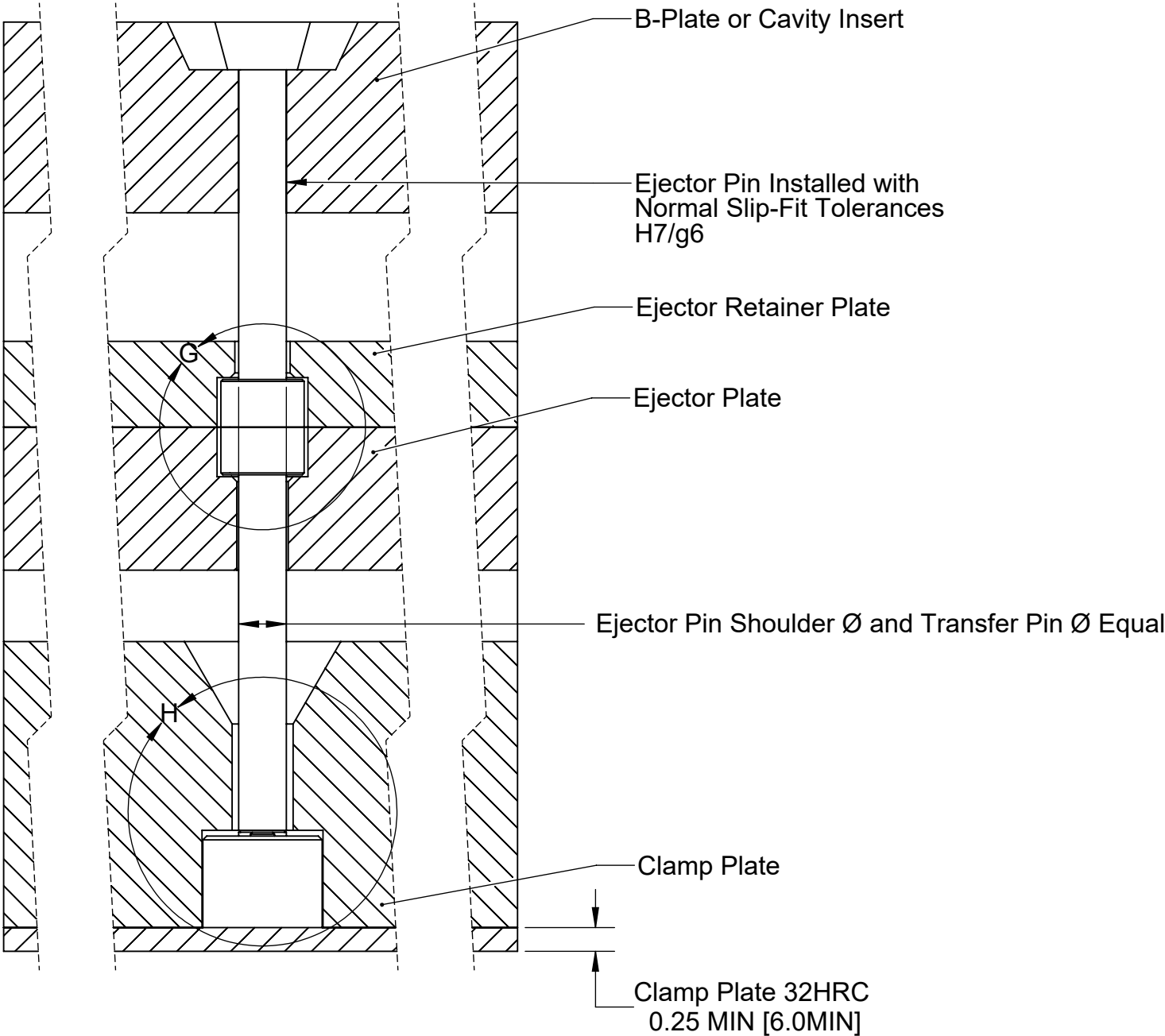
- NOTES:
1. CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
 2. EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
 3. ENCLOSED EJECTOR BOX SUGGESTED.
 4. DO NOT SCALE PRINT
 5. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
 6. DIMENSIONS IN INCHES [MM], UNLESS NOTED
 7. TOLERANCES UNLESS SPECIFIED:
XXX = ±0.003 [0.08]
XX = ±0.01 [0.3]
ANGLES = ±3° 30°



Description: MCSG-4000
Sensor Installation
Drawn: K.J.Brettschneider
Design:
Check: M.Groleau
Date: 04.02.2025

Drawing Title: MCSG-4000-05

Multi-Channel Strain Gage 4,000 lb. Sensor (MCSG-4000) Installation—Clamp Plate Installation
CLAMP PLATE INSTALLATION FOR PINS ≤ Ø0.25 [7.0]; PINS >Ø0.25 [7.0] USE HEAD-TO-HEAD INSTALLATION.



NOTES:

1. CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
2. EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
3. ENCLOSED EJECTOR BOX SUGGESTED.
4. DO NOT SCALE PRINT
5. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
6. DIMENSIONS IN INCHES [MM], UNLESS NOTED
7. TOLERANCES UNLESS SPECIFIED:
XXX = ±0.003 [0.08]
XX = ±0.01 [0.3]
ANGLES = ±3° 30°



Description: MCSG-4000
Sensor Installation

Drawn: K.J.Brettschneider

Design:

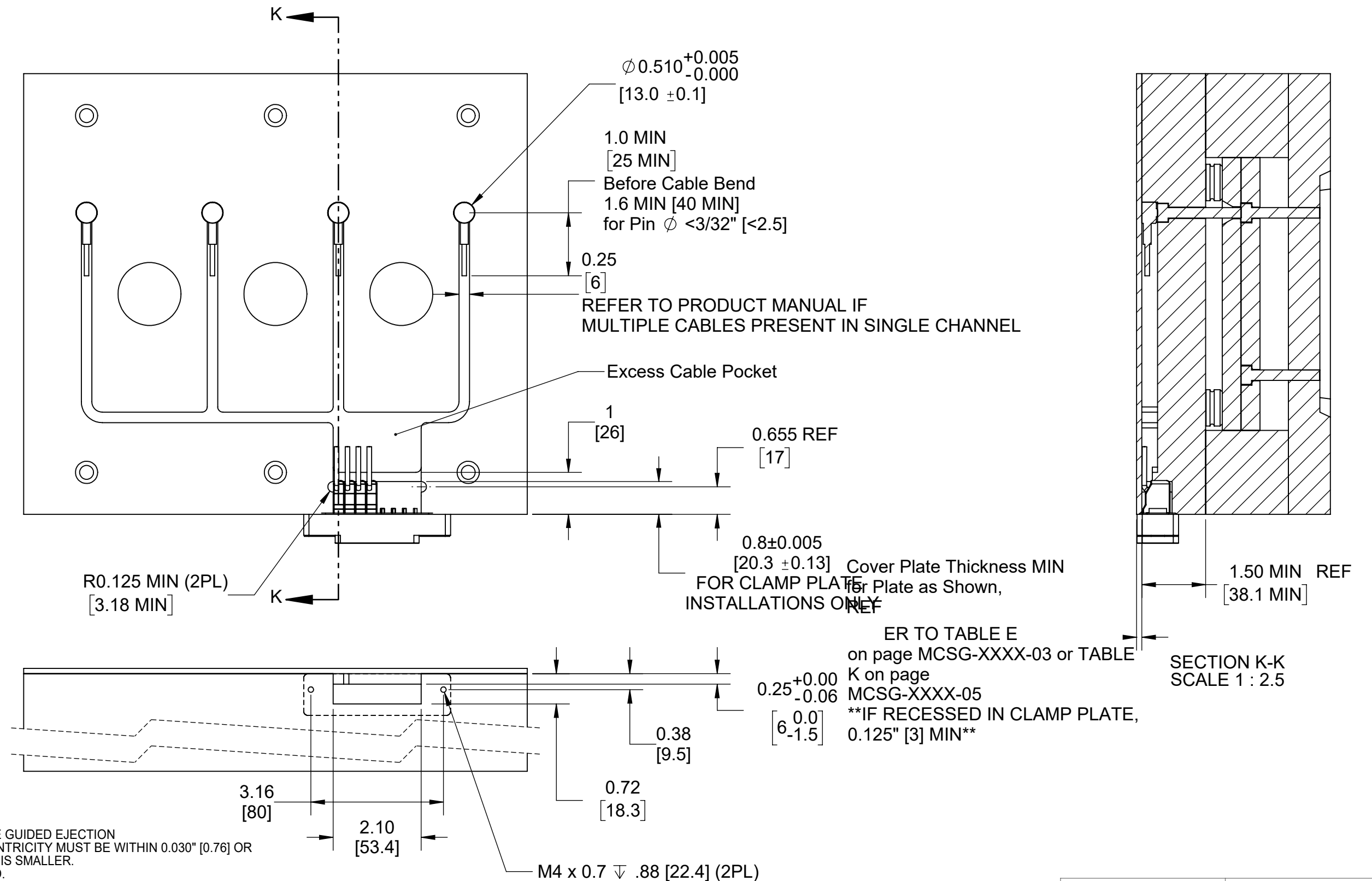
Check: M.Groleau

Date: 04.02.2025

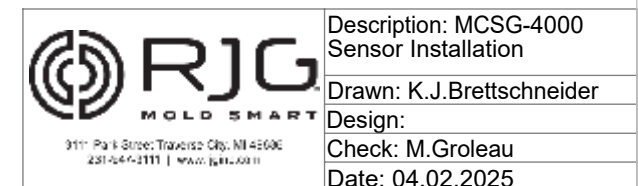
Drawing Title: MCSG-4000-06

Multi-Channel Strain Gage Sensor (MCSG-XXXX) Installation—Clamp Plate/Head-to-Head Installation

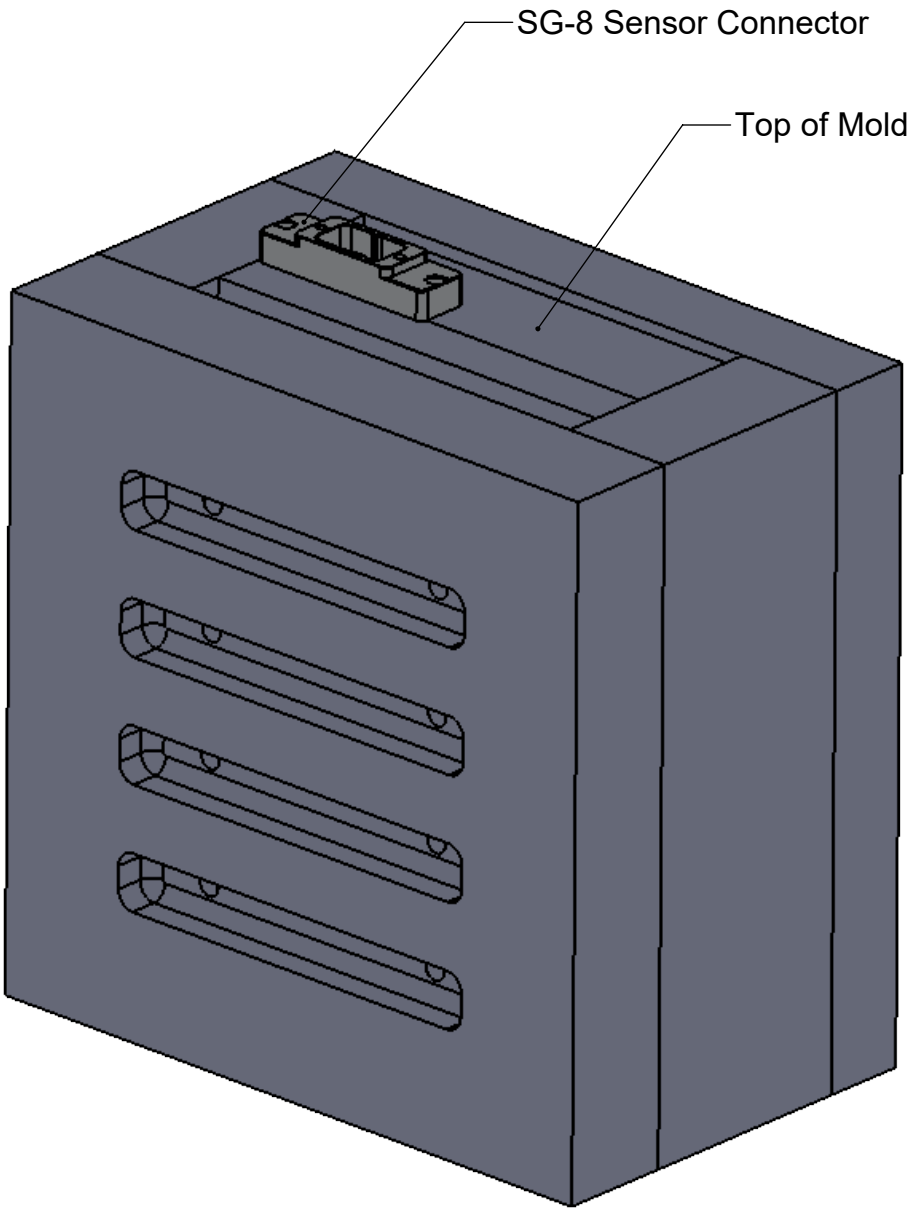
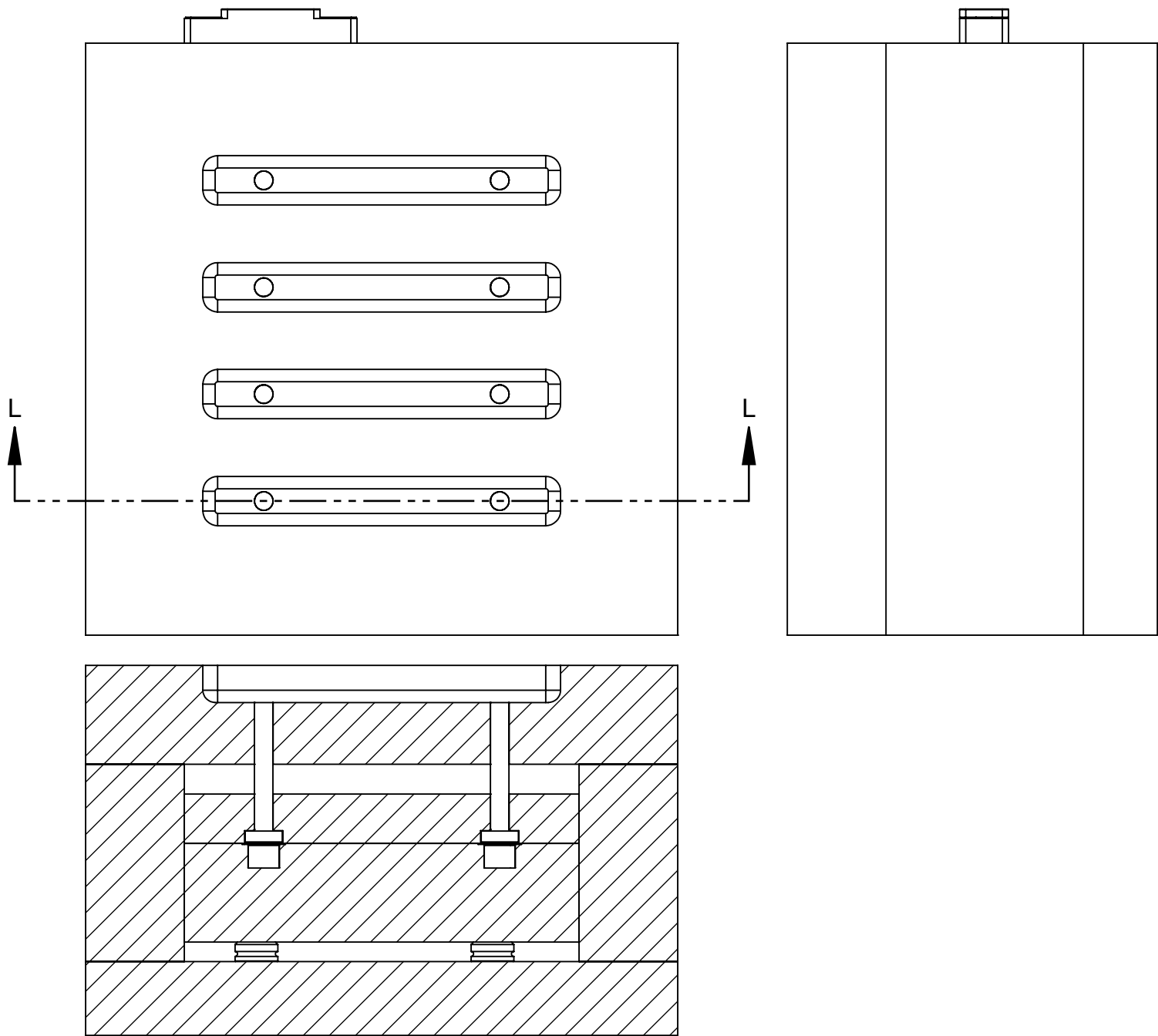
NOTE: Refer to Product Manual for Cable Channel and Cable Pocket Cover Options and for Electronics Mounting Options When Mold Temperature is Greater Than 140 °F [60 °C]



- NOTES:
1. CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
 2. EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
 3. ENCLOSED EJECTOR BOX SUGGESTED.
 4. DO NOT SCALE PRINT
 5. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
 6. DIMENSIONS IN INCHES [MM], UNLESS NOTED
 7. TOLERANCES UNLESS SPECIFIED:
XXX = ± 0.003 [0.08]
XX = ± 0.01 [0.3]
ANGLES = $\pm 3^\circ 30'$



Multi-Channel Strain Gage 4,000 lb. Sensor (MCSG-4000) Installation—Ejector Plate Installation

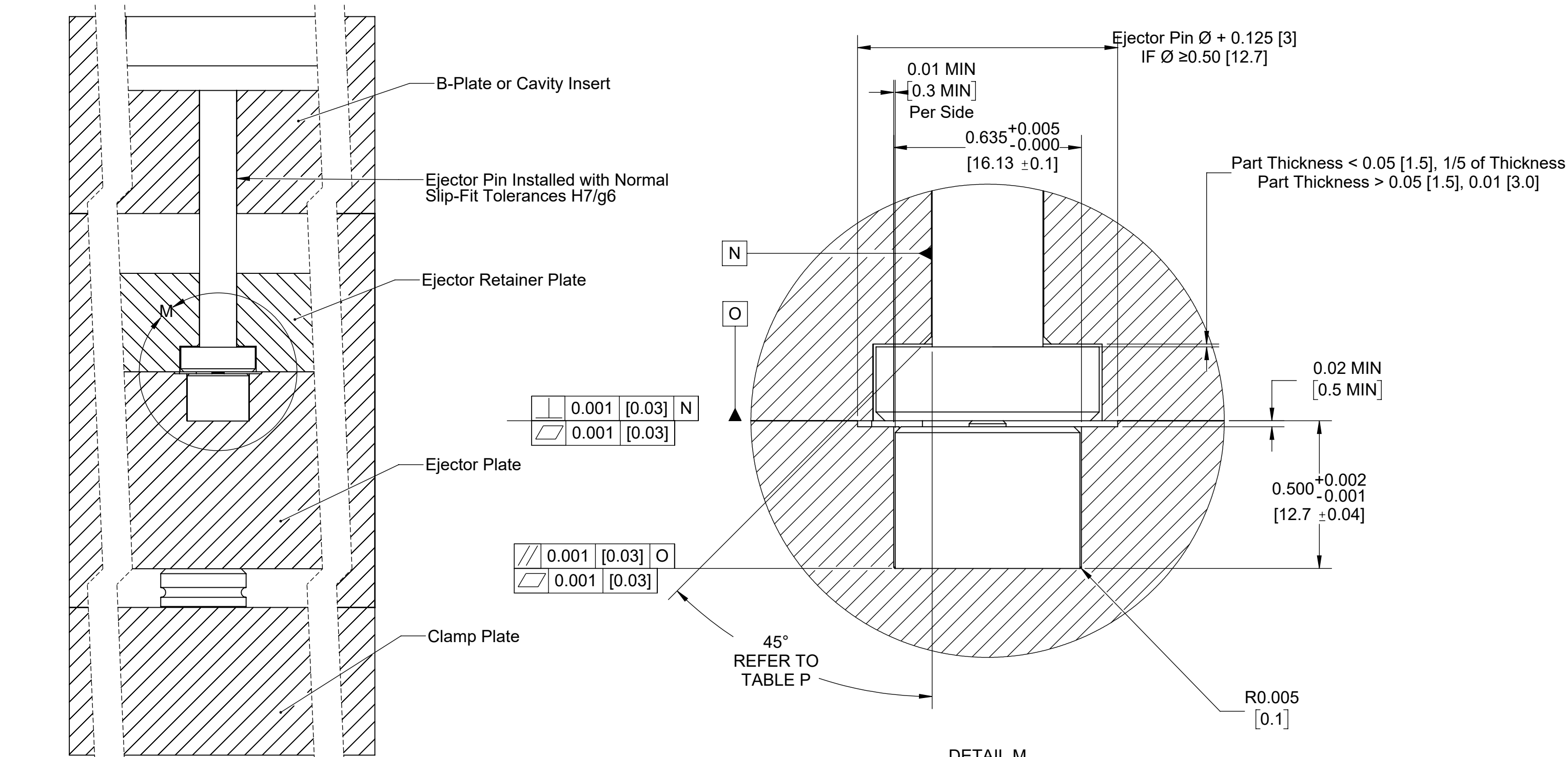


- NOTES:
1. CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
 2. EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
 3. ENCLOSED EJECTOR BOX SUGGESTED.
 4. DO NOT SCALE PRINT
 5. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
 6. DIMENSIONS IN INCHES [MM], UNLESS NOTED
 7. TOLERANCES UNLESS SPECIFIED:
XXX = ± 0.003 [0.08]
XX = ± 0.01 [0.3]
ANGLES = $\pm 3^\circ$ 30°



Description: MCSG-4000
Sensor Installation
Drawn: K.J.Brettschneider
Design:
Check: M.Groleau
Date: 04.02.2025

Multi-Channel Strain Gage 4,000 lb. Sensor (MCSG-4000) Installation—Ejector Plate Installation



NOTES:

1. CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION

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

3. ENCLOSED EJECTOR BOX SUGGESTED.

4. DO NOT SCALE PRINT

5. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX

6. DIMENSIONS IN INCHES [MM], UNLESS NOTED

7. TOLERANCES UNLESS SPECIFIED:

XXX = ±0.003 [0.08]

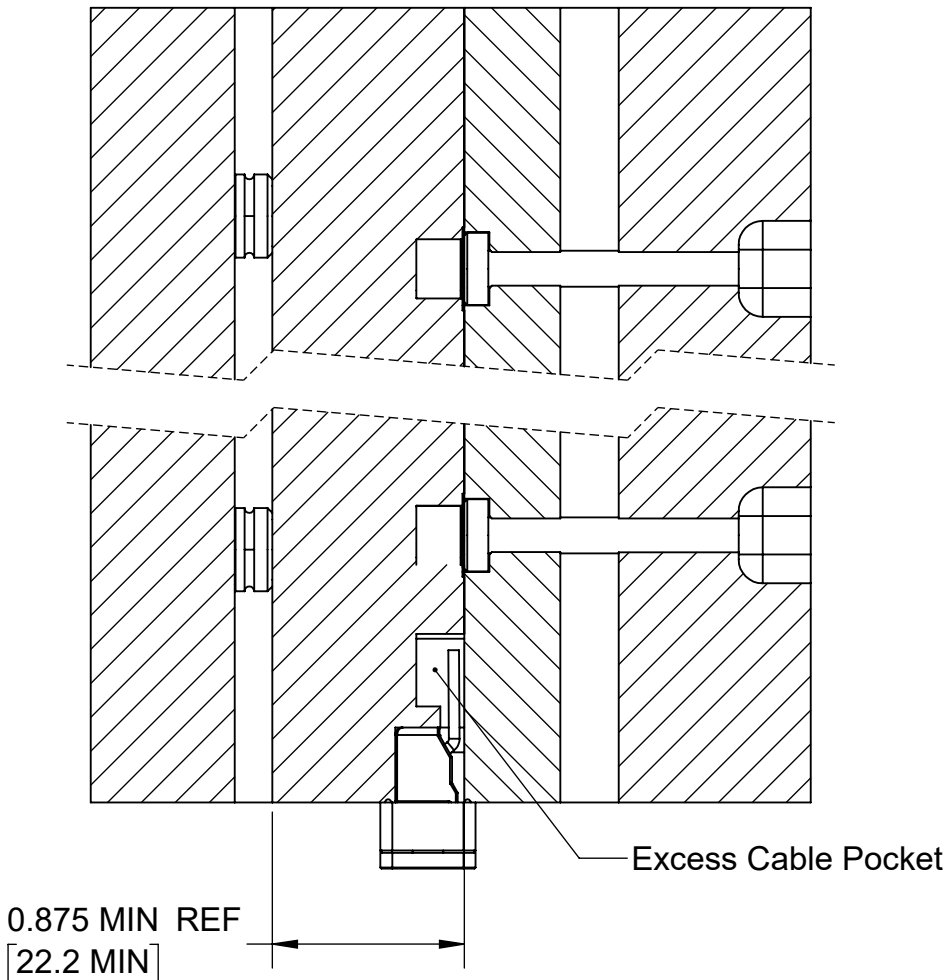
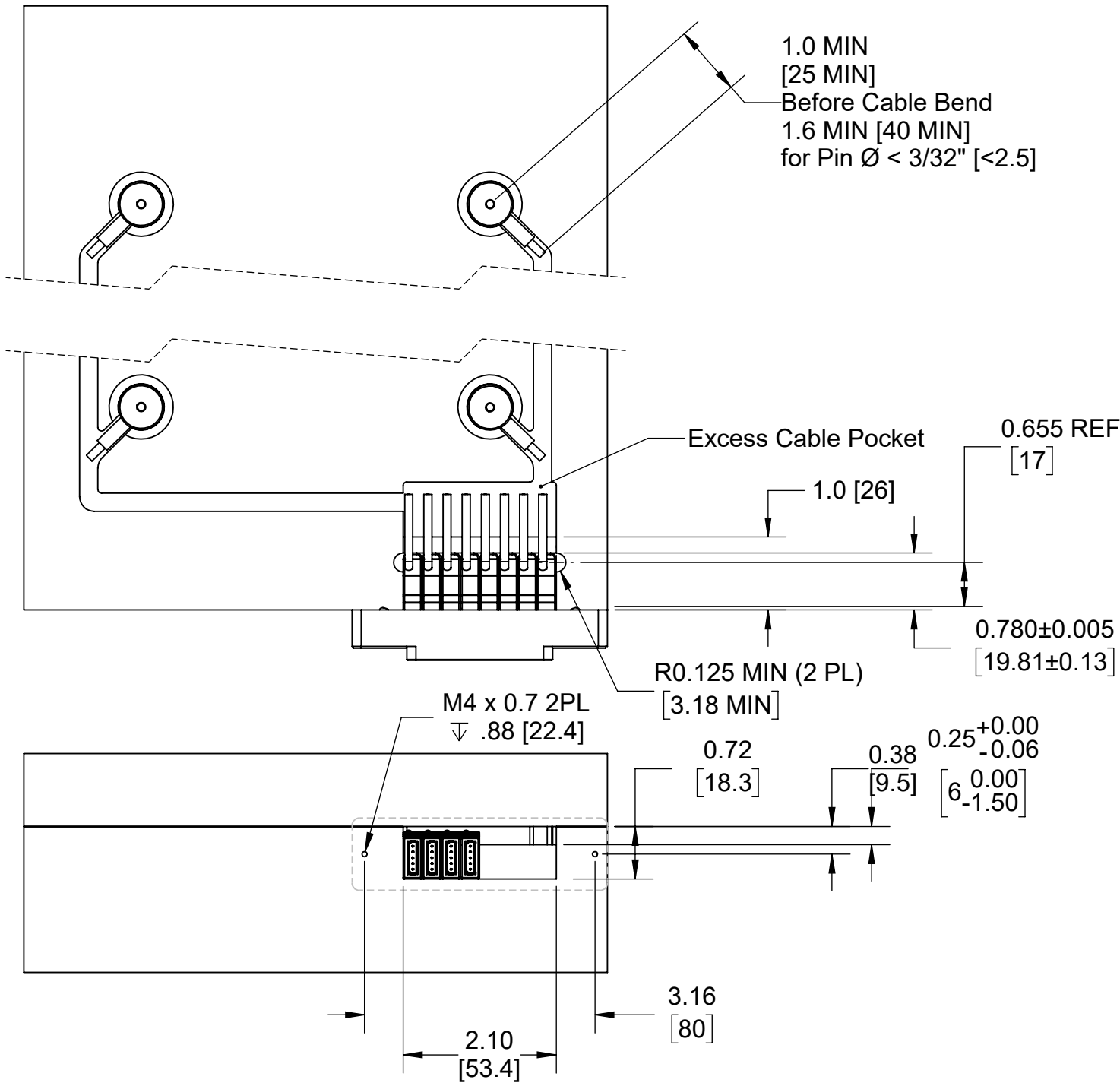
XX = ±0.01 [0.3]

ANGLES = ±3° 30°


TABLE P	
Ejector Pin Ø	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]
0.24–0.40 [6.0–10.0]	0.025 [0.6]

Drawing Title: MCSG-4000-09

Multi-Channel Strain Gage 4,000 lb. Sensor (MCSG-4000) Installation—Ejector Plate Installation



- NOTES:
- 1. 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
 - 2. ENCLOSED EJECTOR BOX SUGGESTED.
 - 3. DO NOT SCALE PRINT
 - 4. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
 - 5. DIMENSIONS IN INCHES [MM], UNLESS NOTED
 - 6. TOLERANCES UNLESS SPECIFIED:
 - XXX = ±0.003 [0.08]
 - XX = ±0.01 [0.3]
 - ANGLES = ±3° 30°

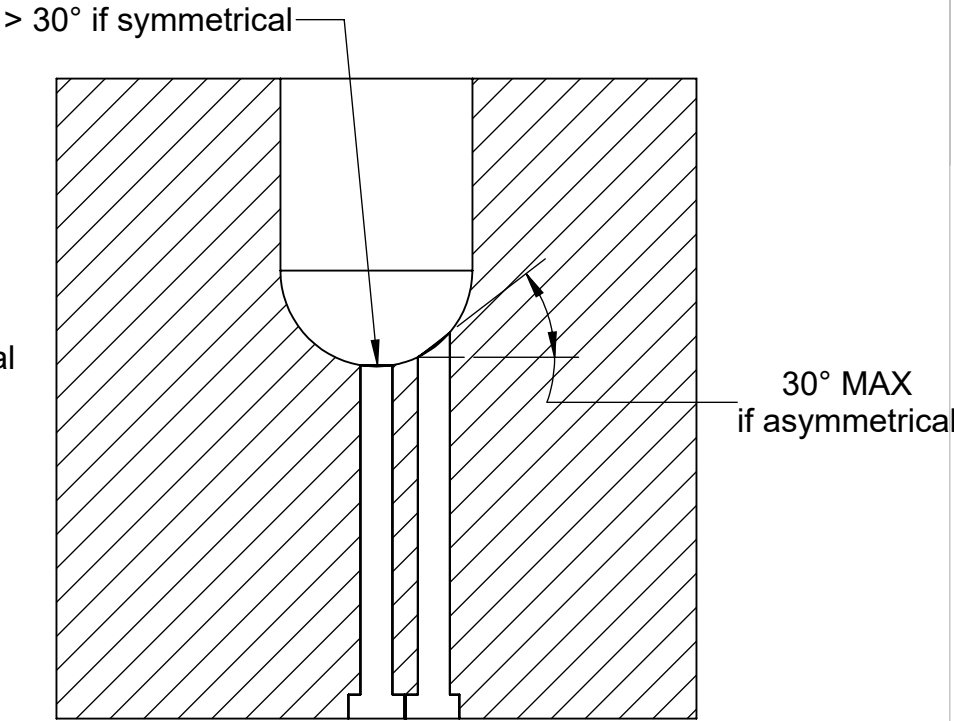
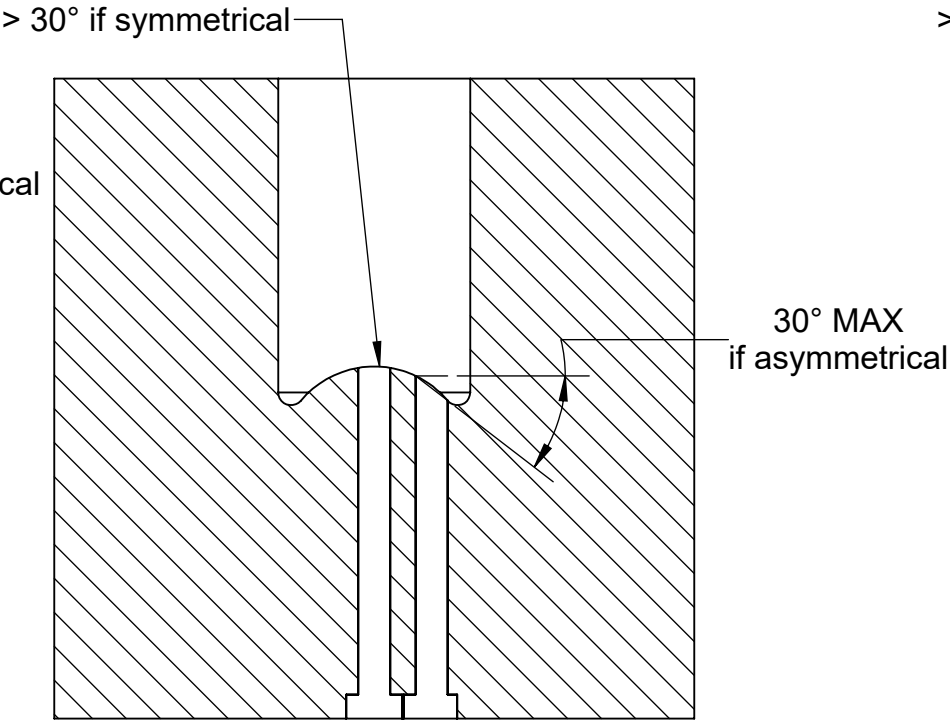
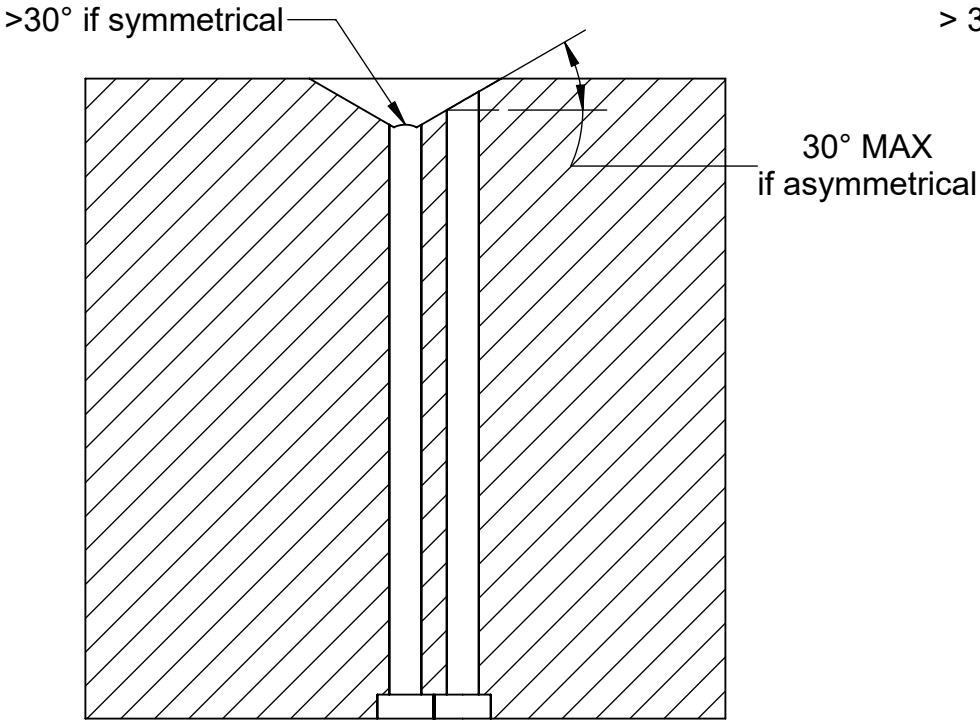
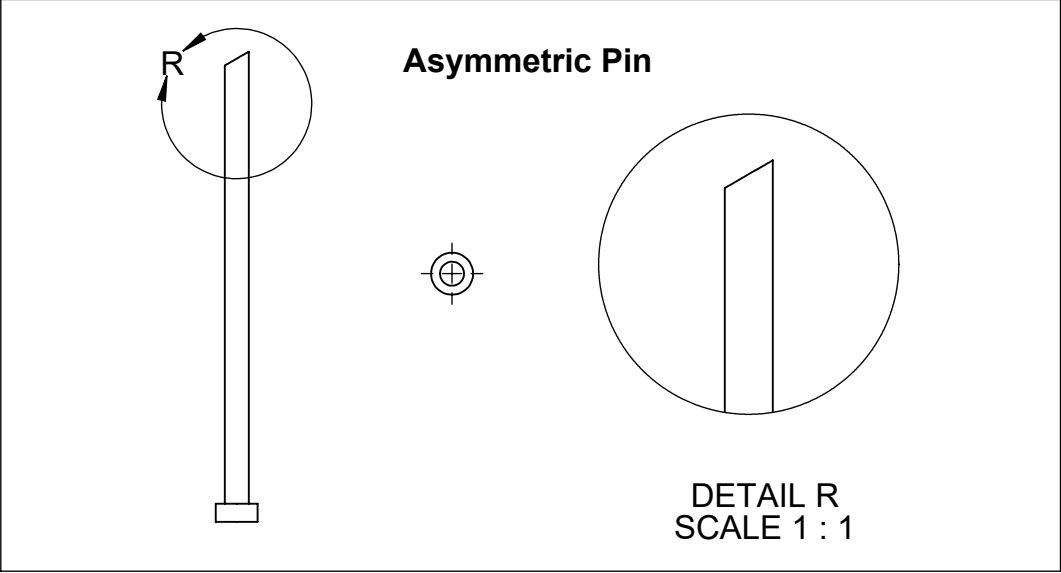
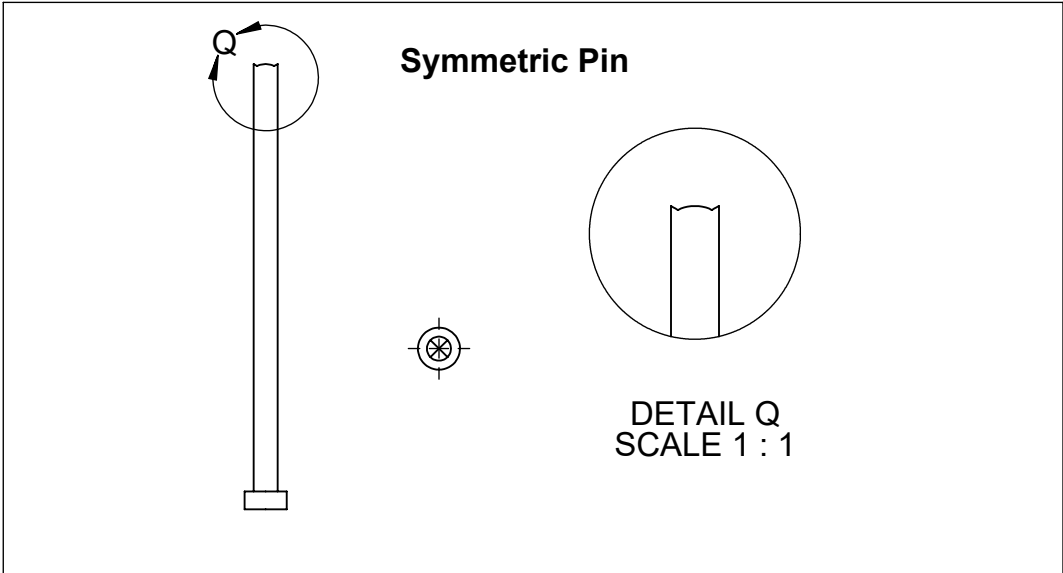


3111 Park Street, Traverse City, MI 49606
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Description: MCSG-4000 Sensor Installation
Drawn: K.J.Brettschneider
Design:
Check: M.Groleau
Date: 04.02.2025

Multi-Channel Strain Gage 4,000 lb. Sensor MCSG-4000 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.



- NOTES:
1. CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
 2. EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
 3. ENCLOSED EJECTOR BOX SUGGESTED.
 4. DO NOT SCALE PRINT
 5. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
 6. DIMENSIONS IN INCHES [MM], UNLESS NOTED
 7. TOLERANCES UNLESS SPECIFIED:
XXX = ±0.003 [0.08]
XX = ±0.01 [0.3]
ANGLES = ±3° 30°



Description: MCSG-4000
Sensor Installation

Drawn: K.J.Brettschneider

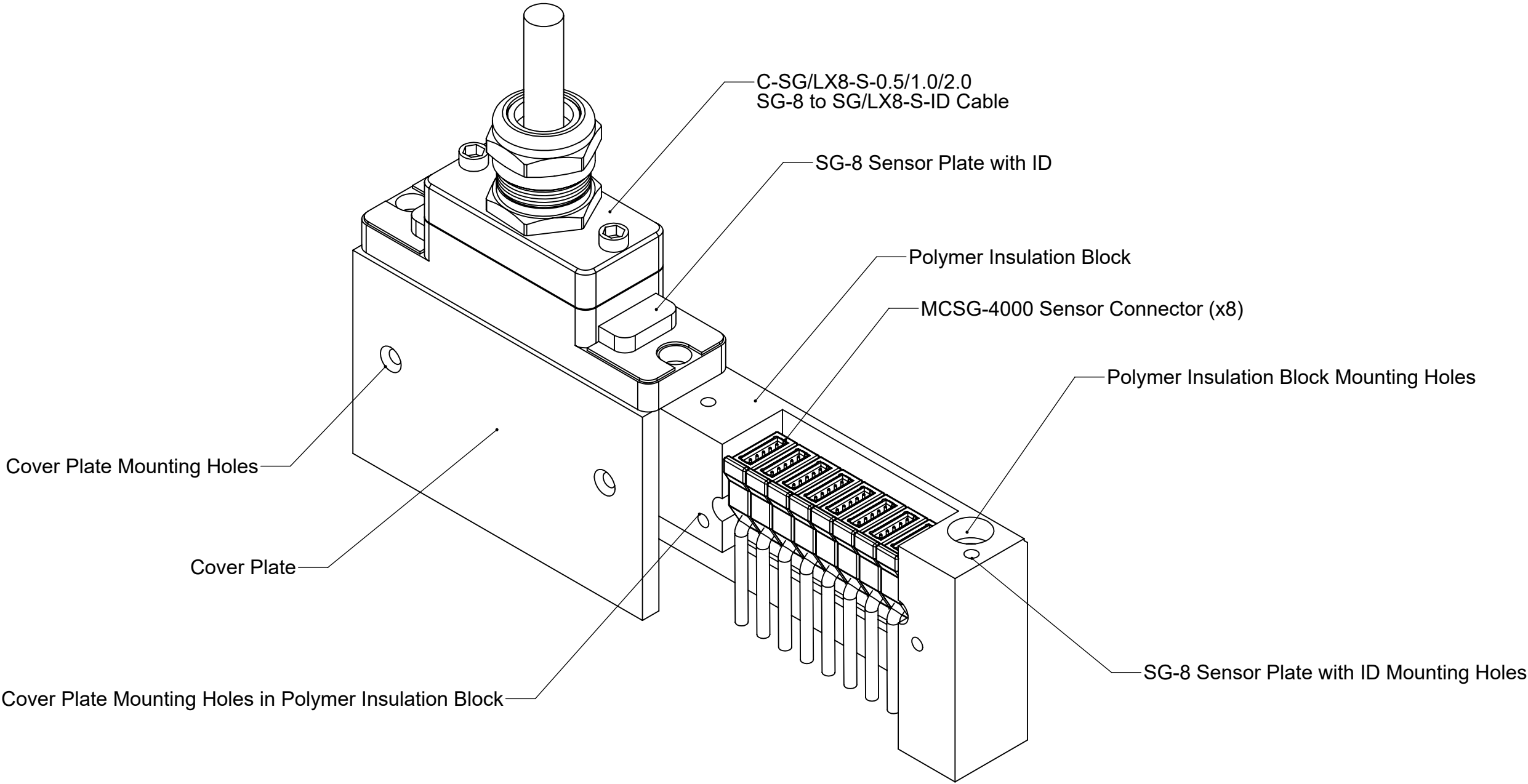
Design:

Check: M.Groleau

Date: 04.02.2025

Multi-Channel Strain Gage 4,000 lb. MCSG-4000 Sensor Installation—High Temperature Installation

NOTE: The sensor electronics must be kept below 140 °F (60 °C) for all MCSG-4000 sensor models. Refer to the drawing below as a guide; RJG does NOT provide polymer assembly pictured below—polymer assembly and design is responsibility of customer. Contact RJG Customer Support for assistance with high-temperature sensor protection designs.



- NOTES:
- 1. CLAMP PLATE APPLICATIONS REQUIRE GUIDED EJECTION
 - 2. EJECTOR AND TRANSFER PIN CONCENTRICITY MUST BE WITHIN 0.030" [0.76] OR 10% OF EJECTOR PIN DIA, WHICHEVER IS SMALLER.
 - 3. ENCLOSED EJECTOR BOX SUGGESTED.
 - 4. DO NOT SCALE PRINT
 - 5. BREAK ALL SHARP EDGES, 0.005 [0.03] R MAX
 - 6. DIMENSIONS IN INCHES [MM], UNLESS NOTED
 - 7. TOLERANCES UNLESS SPECIFIED:
 - XXX = ±0.003 [0.08]
 - XX = ±0.01 [0.3]
 - ANGLES = ±3° 30°



Description: MCSG-4000 Sensor Installation
Drawn: K.J.Brettschneider
Design:
Check: M.Groleau
Date: 04.02.2025