

84A SERIES

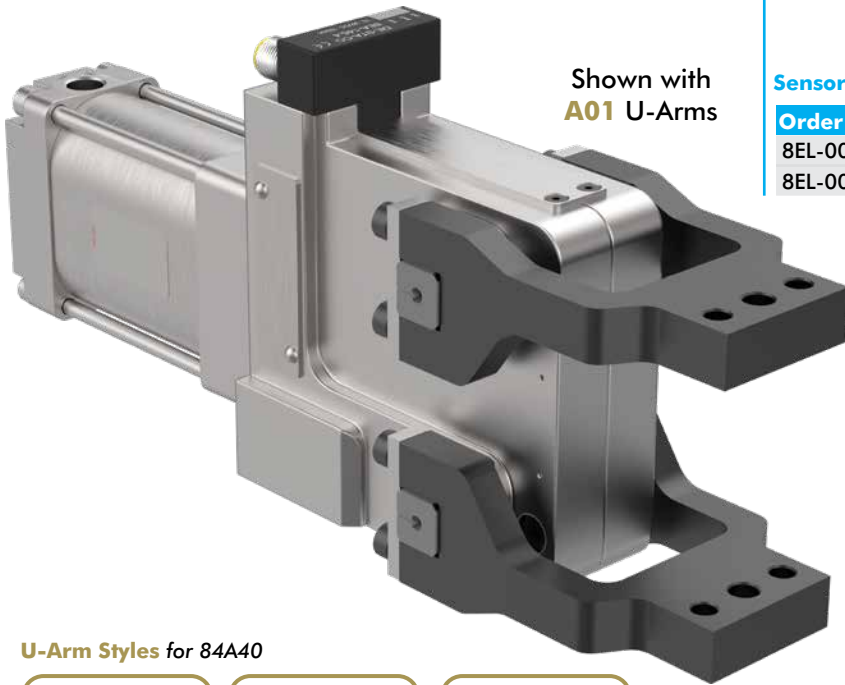
Dual-Arm Tolerance Compensation Power Clamps | Ordering Information

84A **50-1** **A01** **L8**

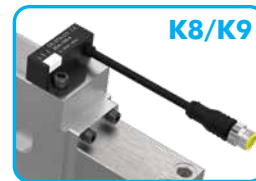
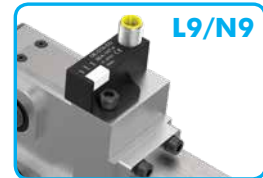
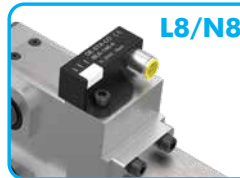
| Size | Description |
|-------------|----------------------------|
| 40-1 | 32 mm Cylinder (G1/8 Port) |
| 50-1 | 50 mm Cylinder (G1/4 Port) |

| U-Arm Style | Description |
|-------------|---|
| 000 | Without Clamping Arms |
| A01 | Double Tip, Surface Clamping |
| A02 | Single Tip, Point Clamping |
| A03 | Double Tip, Surface Clamping (Standard Profile 84A40 , Wide Profile 84A50) |
| A04 | Double Tip, Surface Clamping, Wide Profile <i>for 84A50 only</i> |

Shown with **A01** U-Arms

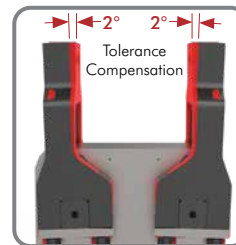


| Sensor | Description |
|-----------|---|
| 00 | Without Sensing System |
| L8 | PNP Sensor with In-line M12x1 Connector (8EA-146-4) |
| N8 | NPN Sensor with In-line M12x1 Connector (8EA-154-4) |
| L9 | PNP Sensor with 90° M12x1 Connector (8EA-147-4) |
| N9 | NPN Sensor with 90° M12x1 Connector (8EA-155-4) |
| K8 | PNP Sensor with M12x1 Cable Connector (8EA-158-4) |
| K9 | NPN Sensor with M12x1 Cable Connector (8EA-167-4) |



Sensor Cables Order separately

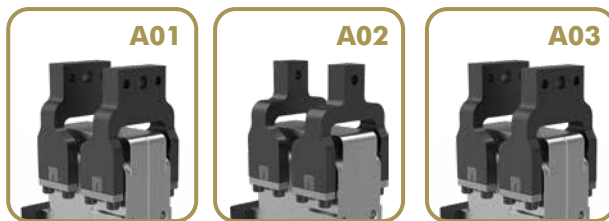
| Order No. | Description |
|-----------|---|
| 8EL-002-1 | M12x1, Straight, 5-pin Connector w/5 m [16 ft.] Cable |
| 8EL-003-1 | M12x1, Angular, 4-pin Connector w/5 m [16 ft.] Cable |



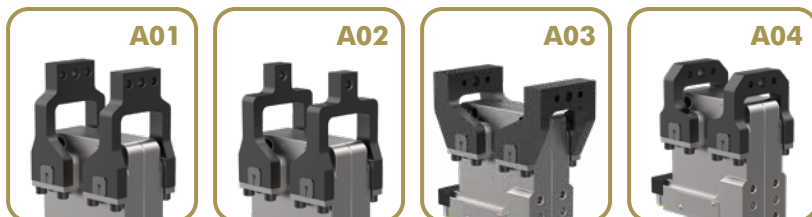
Dual Arm Compensation

- 2° of tolerance compensation per clamp arm
- Compensates for variable sheet metal thicknesses
- There is no need for shimming

U-Arm Styles for 84A40



U-Arm Styles for 84A50



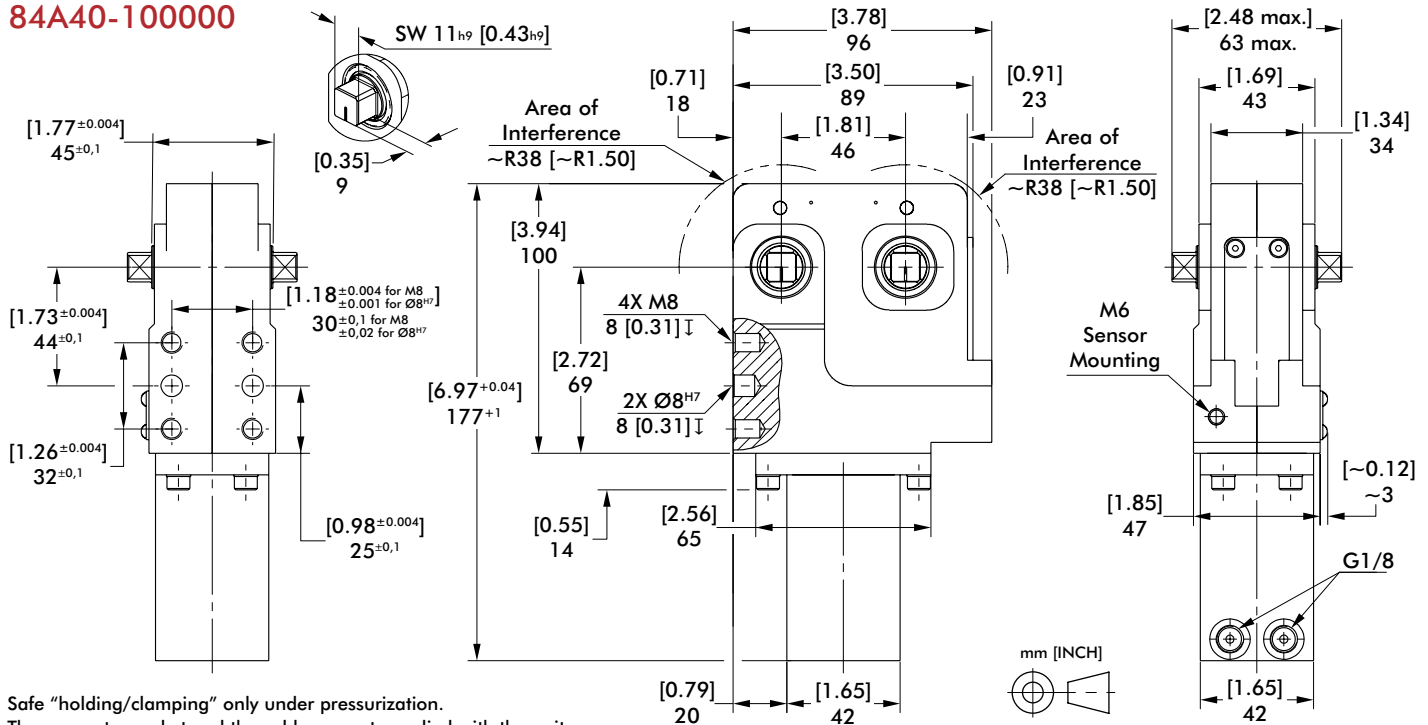
84A40-1

84A50-1

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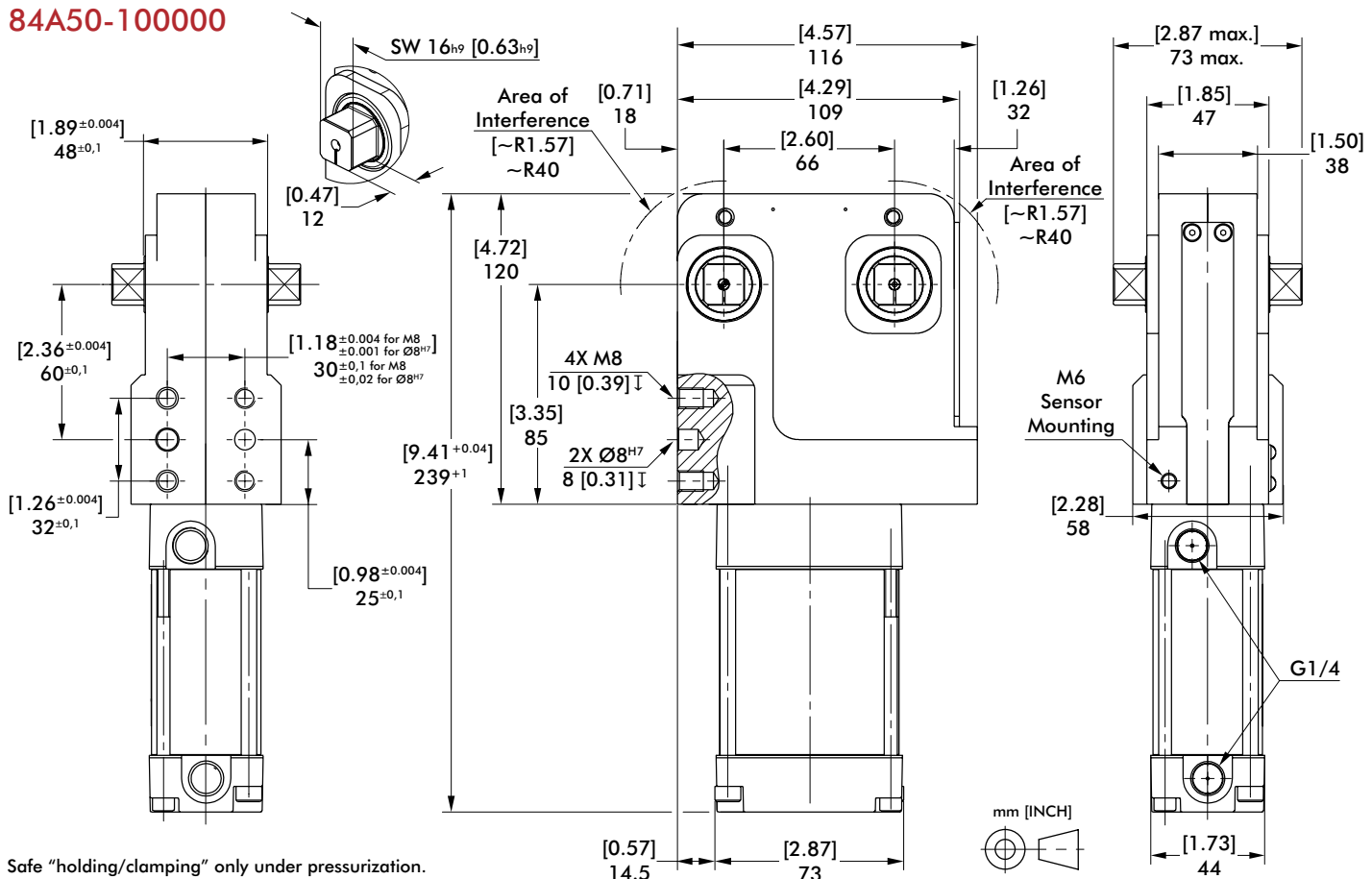
Dual-Arm Tolerance Compensation Power Clamps | Dimensions and Technical Specifications

84A40-100000



Safe "holding/clamping" only under pressurization.
 The connector socket and the cable are not supplied with the unit.
 Power by compressed air, max. 6 bar operation with oil-free air is permissible.

84A50-100000

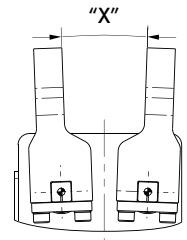
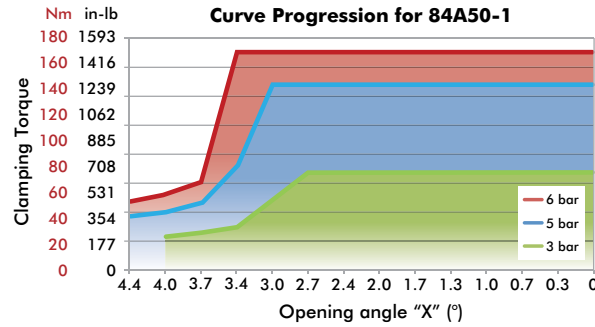
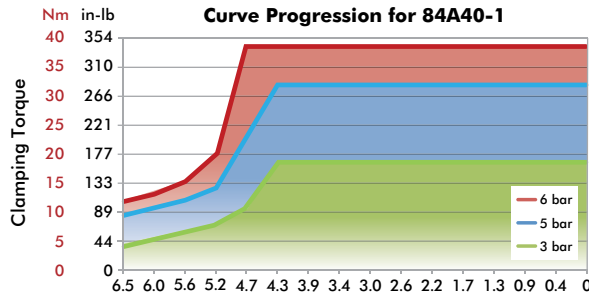


Safe "holding/clamping" only under pressurization.
 The connector socket and the cable are not supplied with the unit.
 Power by compressed air, max. 6 bar operation with oil-free air is permissible.

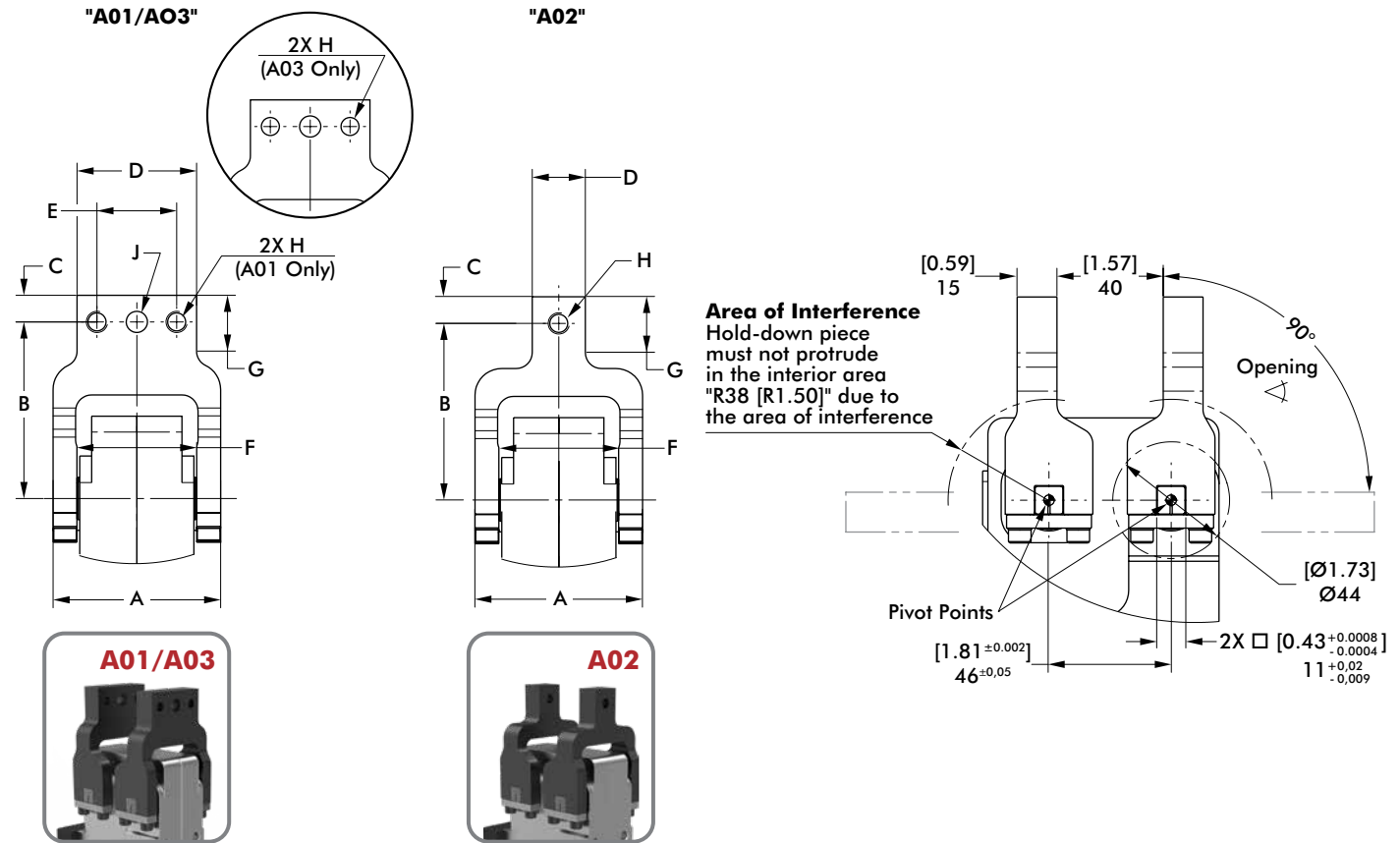
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Dual-Arm Tolerance Compensation Power Clamps | Dimensions and Technical Specifications

| Model | Connection | Max. Holding Torque at 5 bar [72psi] Nm [in-lb] | Max. Clamping Torque at 5 bar [72psi] Nm [in-lb] | Piston Ø mm [in] | ~Weight kg [lb] | Air Consumption per double stroke at 5 bar [72 psi] liter [in ³] |
|--------------|------------|--|---|---------------------|--------------------|---|
| 84A40-1..... | G1/8 | 29 [257] | 29 [257] | 40 [1.57] | 1,5 [3.31] | 0,45 [27] |
| 84A50-1..... | G1/4 | 136 [1200] | 136 [1200] | 50 [1.97] | 2,4 [5.29] | 0,72 [44] |



U-Type Central Clamping Arms (Aluminum) - For Size 84A40

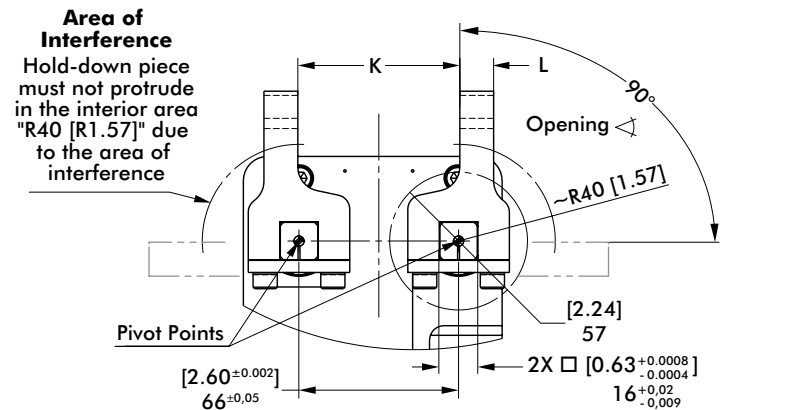
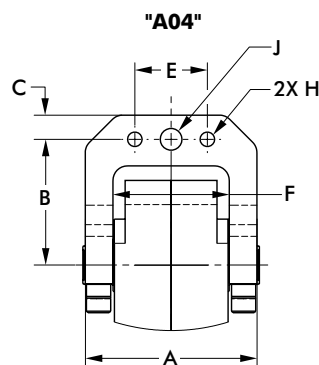
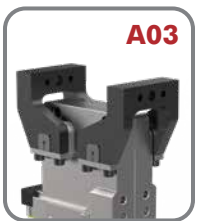
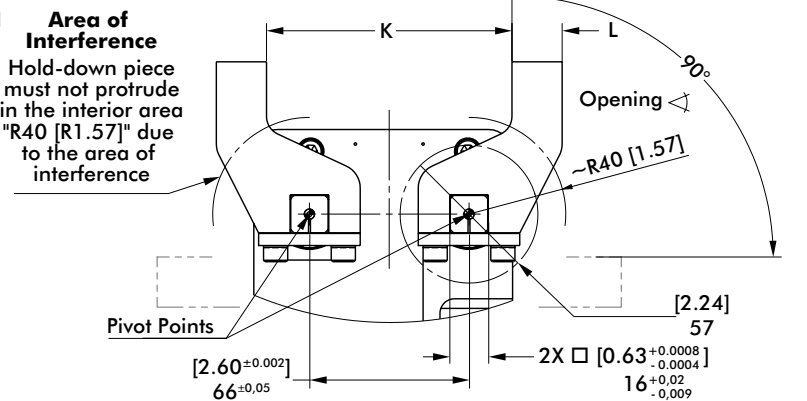
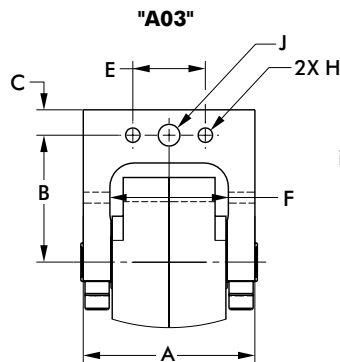
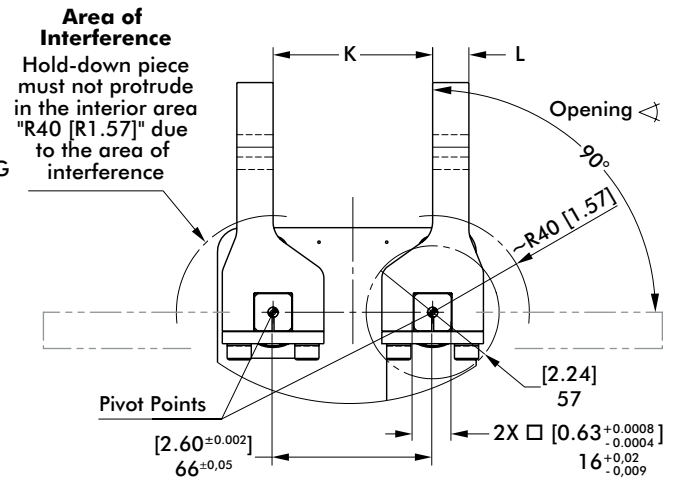
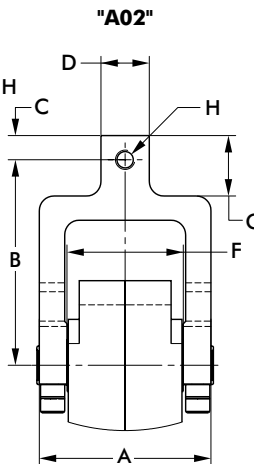
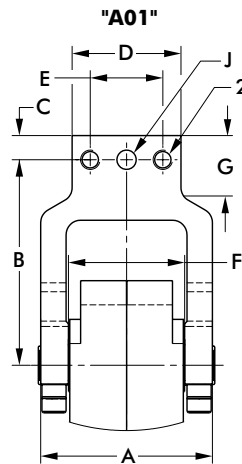


| Arm Model No. | Arm Order No. | Weight kg [lb] | A ±0,5 [±0.02] | B ±0,1 [±0.004] | C -0,05 [-0.002] | D | E ±0,1 [±0.004] | F ±0,02 [±0.008] | G | ØH | ØJ |
|---------------|---------------|----------------|----------------|-----------------|------------------|-----------|-----------------|------------------|--------------|--|---------------------------------------|
| A01 | 8AM801-40-066 | 0,17 [0.37] | [2.48] 63,1 | [2.62] 66,5 | [0.39] 10 | 45 [1.77] | 30 [1.18] | [1.78] 45,1 | [0.83] 21 | M8 | 8 ^{H7} [0.31 ^{H7}] |
| A03 | 8AM803-40-001 | | | | | | 30 [1.18] | | | [0.24 ^{H7}] 6 ^{H7} | 9 [0.35] |
| A02 | 8AM802-40-066 | 0,14 [0.31] | | | | 20 [0.79] | -- | | | M8 | -- |

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Dual-Arm Tolerance Compensation Power Clamps | Dimensions and Technical Specifications

U-Type Central Clamping Arms (Aluminum) - For Size 84A50

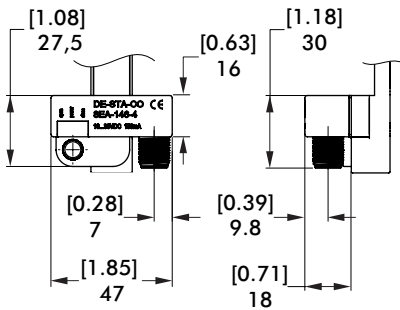


| Arm Model No. | Arm Order No. | Weight kg [lb] | A ±0.5 [±0.02] | B ±0.1 [±0.004] | C -0.05 [-0.002] | D | E +0.2 [±0.008] | F | G | ØH | ØJ | K | L | |
|---------------|---------------|----------------|----------------|-----------------|------------------|-----------|------------------------------------|-------------|-----------|----|---------------------------------------|-----------|--------------|--------------|
| A01 | 8AM801-50-085 | [0.97] 0,44 | [2.80] 71 | [3.35] 85 | [0.39] 10 | [1.77] 45 | $30 [1.18]_{\pm 0.1 [\pm 0.004]}$ | | [0.98] 25 | M8 | [0.31] 8 ^{H7} | [2.60] 66 | [0.59] 15 | |
| A02 | 8AM802-50-085 | [0.9] 0,41 | | [2.07] 52,5 | [0.41] 10,5 | [0.79] 20 | -- | [1.89] 48,1 | | | | -- | [4.00] 101.5 | [0.82] 20.75 |
| A03 | 8AM803-50-001 | [1.1] 0,5 | | [2.05] 52 | [0.39] 10 | -- | $30 [1.18]_{\pm 0.02 [\pm 0.008]}$ | | | | [0.24 ^{H7}] 6 ^{H7} | [0.35] 9 | [2.64] 67 | [0.55] 14 |
| A04 | 8AM804-50-001 | [0.79] 0,36 | | | | | | | | | | | | |

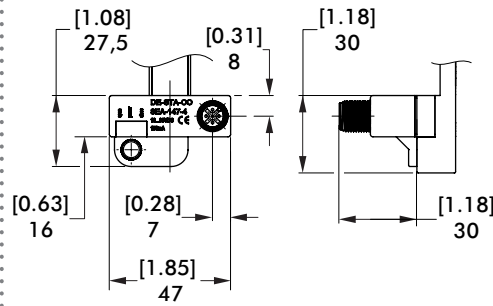
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Dual-Arm Tolerance Compensation Power Clamps | Dimensions and Technical Specifications

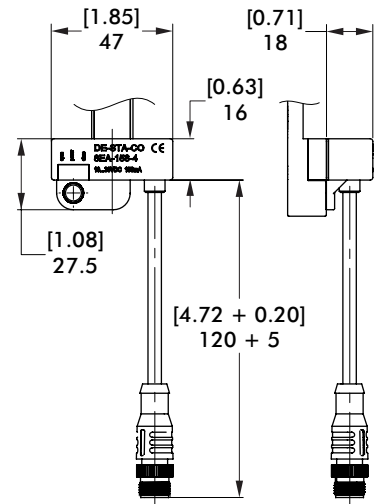
L8, N8 Inductive Sensing System



L9, N9 Inductive Sensing System with 90° Connector

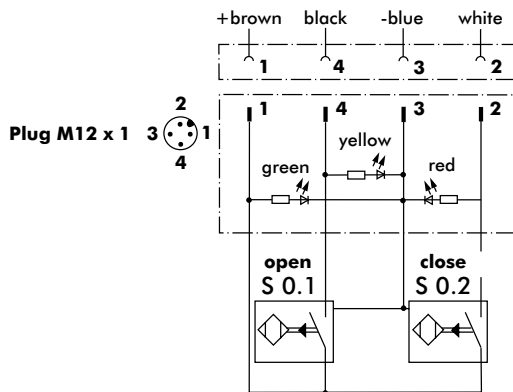


K8, K9 Inductive Sensing System with Pigtail Connector



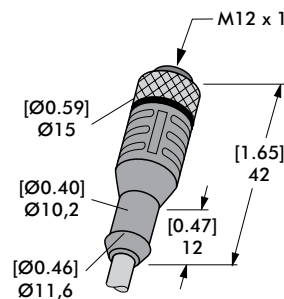
Inductive Sensor Wiring Diagram

Sensing system immune to interference from AC / DC arc welding.

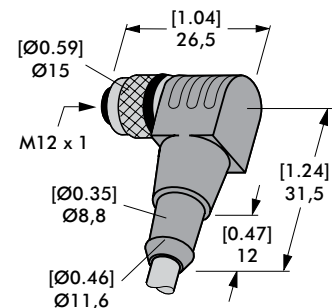


Sensor Cable Accessories

| Sensor Cables (1 connector & 5m cable) | Order no. |
|--|------------------|
| M12x1 connector, straight, 5-pin | 8EL-002-1 |
| M12x1 connector, 90° angular, 4-pin | 8EL-003-1 |



Straight Cable
8EL-002-1



Angular Cable
8EL-003-1