86S6N-3

Pneumatic Shot Pin | Single Shaft | Ordering and Technical Information

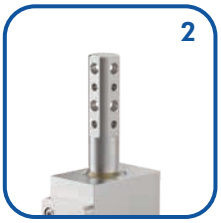
86S6N-3 | 03 | 2 | 00 | N9

Base Model Description
86S6N-3 63 mm Cylinder (1/4NPT Port)

Stroke* Description
2 25 mm Stroke
5 50 mm Stroke
*Stroke is field adjustable.

Piston Rod Description
03 NAAMS Standard







Accessories Description
00 No Accessories



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







Sensor Cables Order separately

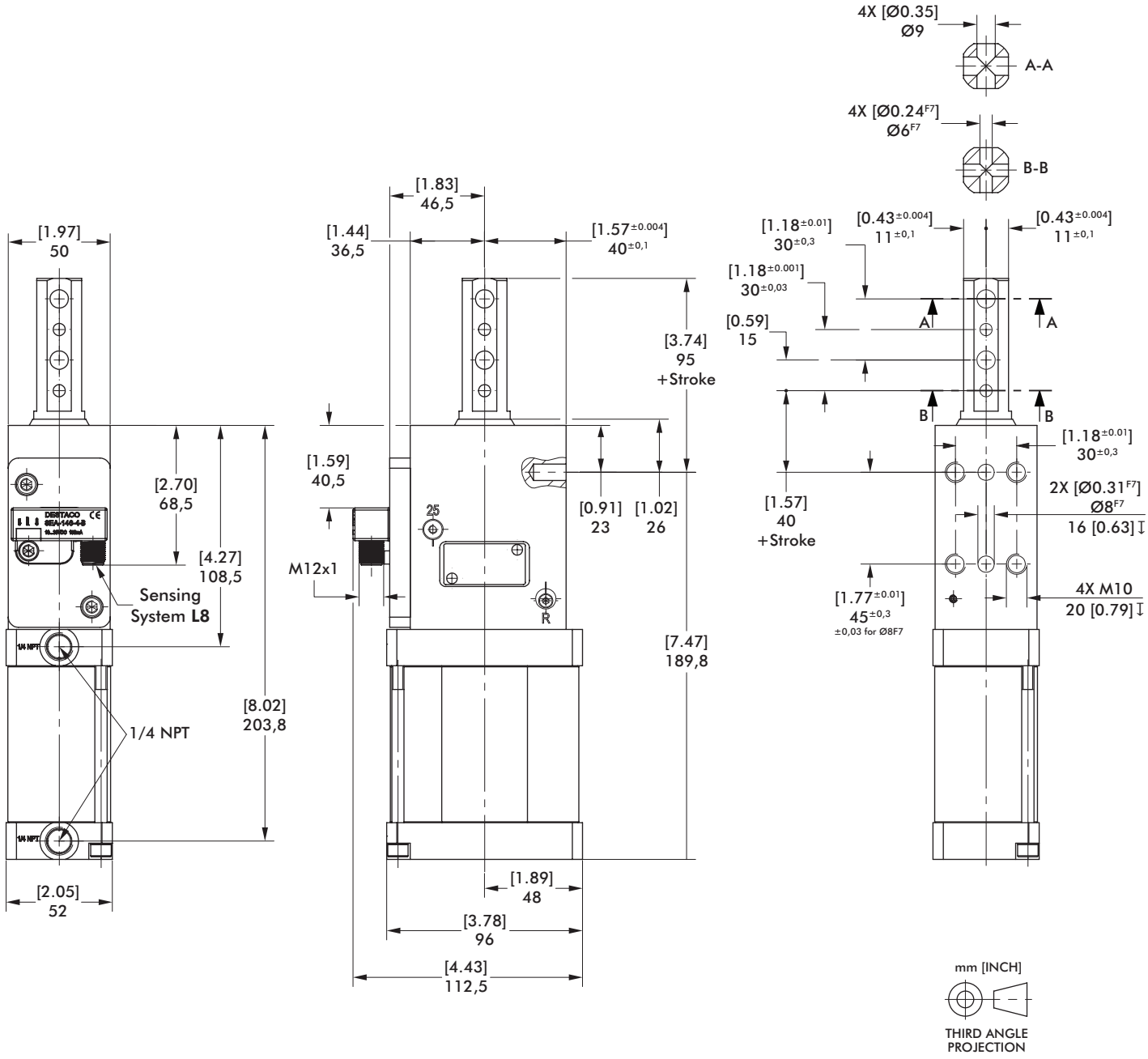
Order No.	Description
8EL-002-1	M12x1, Straight, 5-pin Connector with 5 m [16 ft.] Cable
8EL-003-1	M12x1, Angular, 4-pin Connector with 5 m [16 ft.] Cable

	86S6N-3
Stroke Option:	2, 5
Max Pushing Force at 5 bar [72 psi]:	1480 N [333 lbf]
Max Retracting Force at 5 bar [72 psi]:	1400 N [315 lbf]

Dimensions and technical information are subject to change without notice

86S6N-3

Pneumatic Shot Pin | Single Shaft | Dimensions and Technical Specifications



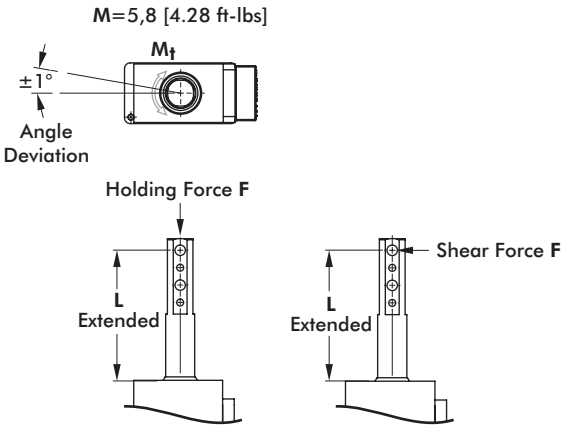
Medium: Operation with oil free air is permissible

Base Model	Stroke Option	Stroke +2 [0.08] mm [in]	Pushing force at 5 bar [72 psi] N [lbs]	Retraction force at 5 bar N [lbs]	Max. operating pressure bar [psi]	Piston Ø mm [in]	Weight Kg [lbs]	Air consumption per double stroke at 5 bar [72 psi] dm^3 [ft^3]
86S6N-303	2	25 [0.98]	[333] 1480	[315] 1400	[87] 6	[2.48] 63	[5.86] 2.66	0.9 [0.03]
	5	50 [1.97]						1.8 [0.06]

86S6N-3

Pneumatic Shot Pin | Single Shaft | Technical Specifications

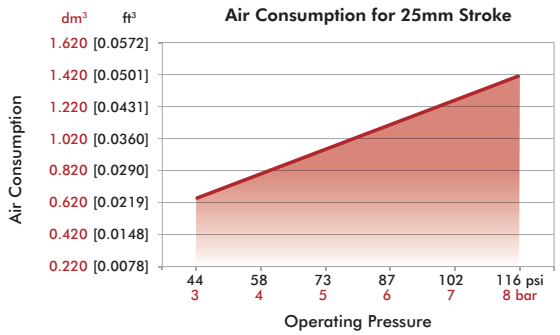
Max. Angle of Deviation

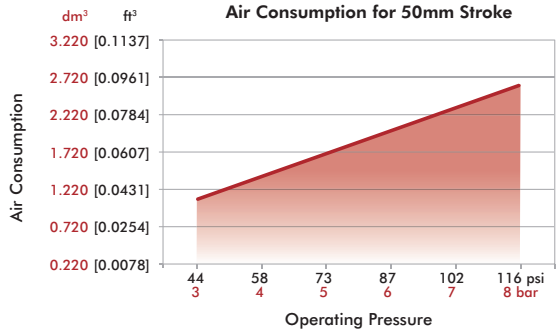


Model no.	Shear Force N [lbs]	Holding Force* N [lbs]	L mm [in]	Stroke mm [in]	Deviation mm [in]
86S6N-3...2	[45] 200	[13] 60	87 [3.43]	25	0,15 [0.006]
86S6N-3...5			112 [4.41]	50	0,25 [0.010]

*Depressurized state.

Air Consumption

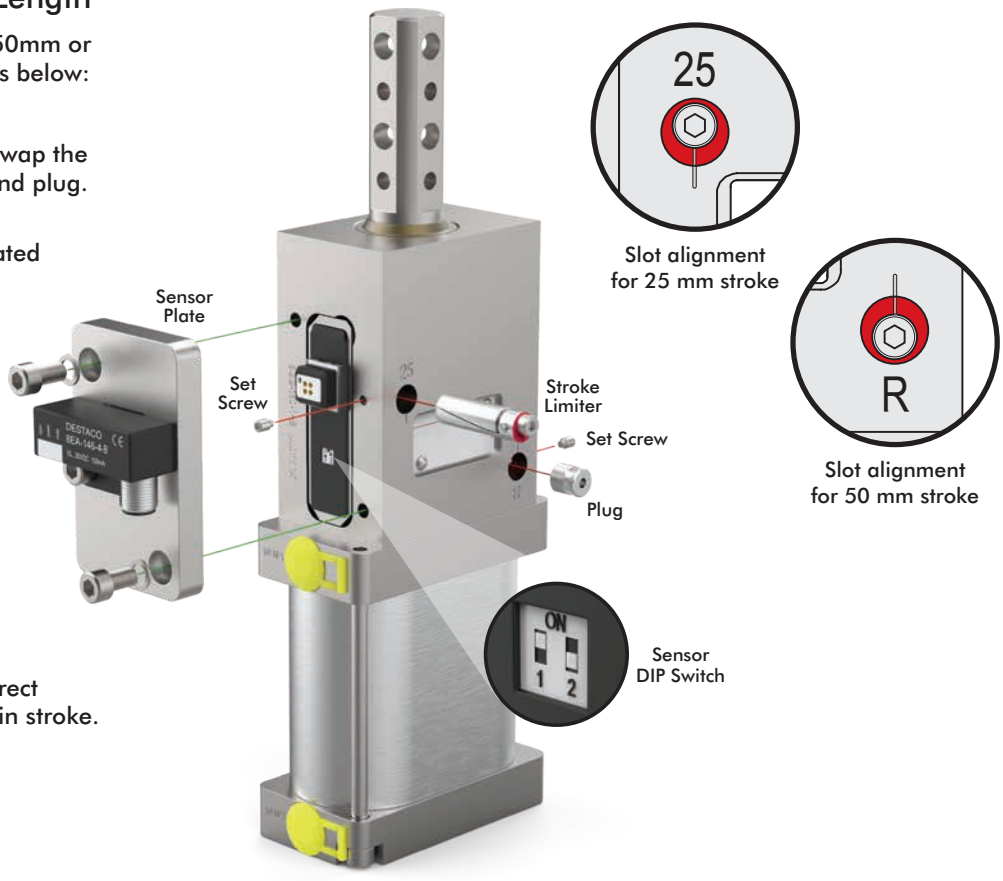




Field-Adjustable Pin Stroke Length

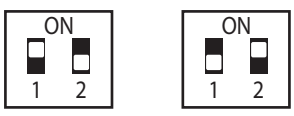
To change the stroke from 25mm to 50mm or from 50mm to 25mm, follow the steps below:

1. Remove the sensor plate.
2. Remove the two set screws and swap the placement of the stroke limiter and plug.
3. Align the slot indicated on the stoke limiter with the mark indicated on the body (shown at right).
4. Reinstall the two sets screws.
5. Change the positions of the sensor DIP switch to the correct setting for the proper stroke length (shown below).
6. Reattach the sensor plate.



Sensor Stroke Adjustment

Sensor can easily be toggle-set to correct length during the adjustment of the pin stroke.

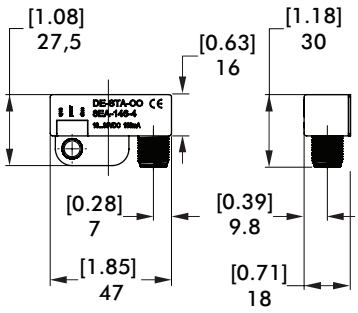


Dimensions and technical information are subject to change without notice

86S6N-3 SENSORS

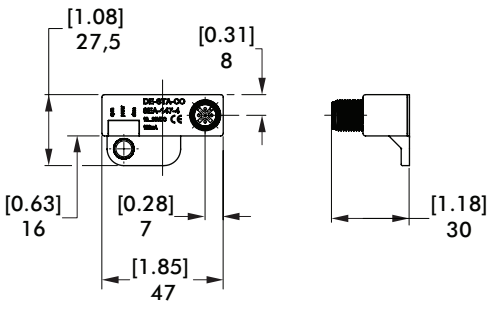
Pneumatic Shot Pin | Single Shaft | Dimensions and Technical Specifications

L8, N8 Inductive Sensing System



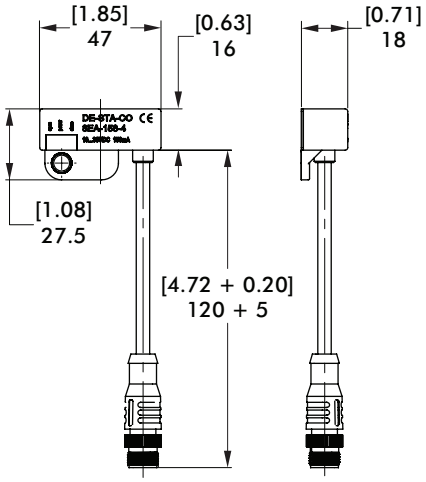


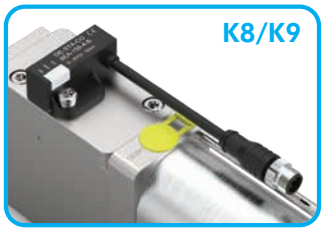
L9, N9 Inductive Sensing System with 90° Connector





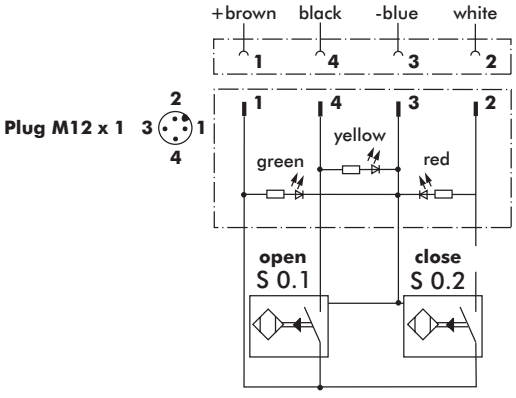
K8, K9 Inductive Sensing System with Pigtail Connector





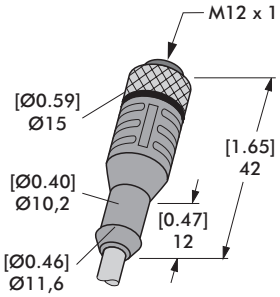
Inductive Sensor Wiring Diagram

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

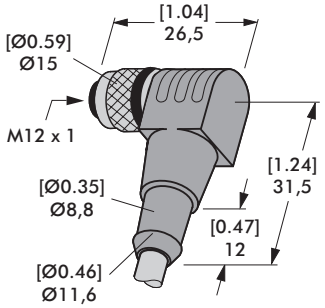


Sensor Cable Accessories

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