

slides

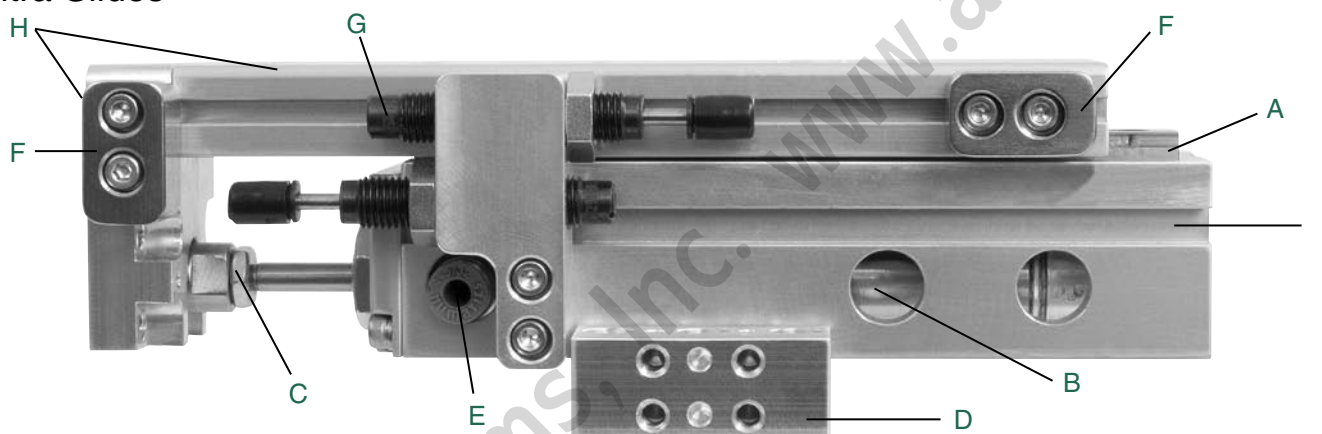
Ultra Series
Slide Table



numatics

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Ultra Slides



A. Square rail:

Square rail provides high load carrying capabilities.

B. Cylinder:

Cylinder is standard Numatics M-Series or ISO VDMA 6432

C. Alignment Coupler:

Alignment Coupler isolates piston rod from side loading

D. Optional Base mount:

Optional Base mount with thru holes and tapped holes for side mounting

E. Fittings:

Fittings installed with a variety of tube options.

F. Electroless Nickel plated hard stops:

Electroless Nickel plated hard stops can be mounted on either side.

G. Optional stroke adjustment or shock absorbers:

Available with optional stroke adjustment or shock absorbers. Can be mounted on either side.

H. Flexible mounting:

Flexible mounting for tooling. NuMate™ tooling plate allows for direct mount of same size Ultra slide. Dowel holes are standard.

I. Sensing track:

Sensing track located on both sides of the Ultra Series will accept standard "T-Slot" Hall effect sensors.



How to Order

USI 03 005 1 Z B A 1 A

Cylinder Option

USI = Imperial
USM = Metric ISO VDMA 6432

Bore Diameter (USI)

*01 = 5/16"
02 = 9/16"
03 = 3/4"
04 = 1 - 1/16"

Metric Bore Diameters (USM)

*08 = 8 mm
12 = 12 mm
20 = 20 mm
25 = 25 mm

*5/16 & 8mm bore not available with shocks or sensing

Stroke (USI)

0X5 = 1/2"
001 = 1"
0X9 = 1-1/2"
002 = 2"
003 = 3"
004 = 4"

*005 = 5"
*006 = 6"

Metric Strokes (USM)

025 = 25 mm
050 = 50 mm
080 = 80 mm
100 = 100 mm
*125 = 125 mm
*160 = 160 mm

*5/16 & 8mm bore not available in these stroke lengths

Seal Option

1 = Buna
2 = Viton

Sensing Type

1 = Hall PNP (Sourcing)
2 = Hall NPN (Sinking)
6 = No Sensing

Quick Disconnect

Cord Set

Y = Hall NPN (Sinking)
Z = Hall PNP (Sourcing)

Sensing Position

Right Side

A = Single Pos. Extend
B = Single Pos. Retract
C = Extend & Retract
D = No Sensing

Left Side

X = Extend & Retract
Y = Single Pos. Retract
Z = Single Pos. Extend

* Fittings Right Side

A = 1/8" Tube
B = 5/32" Tube
C = 1/4" Tube
E = 4mm Tube
F = 6mm Tube

* Fittings Left Side

H = 1/8" Tube
J = 5/32" Tube
K = 1/4" Tube
L = 4mm Tube
M = 6mm Tube

*8mm bore not available with 1/4" or 6mm tube option.
5/16 bore only available with 1/8" and 5/32" tube option.
9/16 bore not available with 4mm or 6mm tube option.

*Base Plate Option

Right Side

1 = One base plate
2 = Two base plate
D = No base plate

Left Side

4 = One base plate
5 = Two base plate

*See page 8 for maximum Base plates per stroke

* Hardware Option

Right side

** 1 = Stroke adjust extend stroke
Shock absorber on retract stroke

** 2 = Stroke adjust retract stroke
Shock absorber on extend stroke

4 = No Hardware

Right side Shock Absorber

A = Extend
B = Retract
C = Extend & Retract

Stroke Adjustment Right Side

5 = Extend
6 = Retract

7 = Extend & Retract

Left Side Hardware Option

D = Stroke adjust extend Shock absorber on retract stroke

E = Stroke adjust retract Shock absorber for extend stroke

Left side Shock Absorber

G = Extend
H = Retract
J = Extend & Retract

Stroke Adjustment Left Side

K = Extend
L = Retract

M = Extend & Retract

*When calling out shocks for extend or retract, the shock becomes the stroke adjustment. Therefore, you do not have to order both stroke adjustment and shocks.

** When ordering shock absorber and stroke adjust, Stroke adjustment screw will be mounted on opposite side of shock. (Fig. 1)

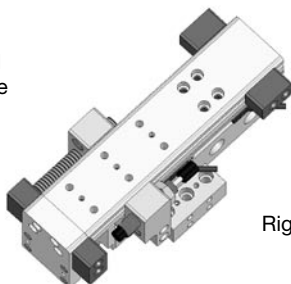
*All USI imperial cylinders come with end porting.



*USM metric ISO VDMA 6432 cylinders extend porting can be on right or left side.



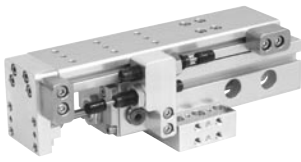
Figure 1
Left Side



Right Side

Order example: USI020021ZC21C

Part Description: USI with 9/16" bore, 2" stroke, buna seals, PNP quick disconnect sensors 2 position on right side with stroke adjust for retract stroke on left side and shock absorber on right side for extend stroke. Base plate mounting holes on right side and fittings for 1/4" tube.



Technical Specifications

Unit Output force (USI)

Bore	5/16"	9/16"	3/4"	1-1/16"
Extend (lbs.)	.077	.299	.442	.887
Retract (lbs.)	.065	.221	.393	.810

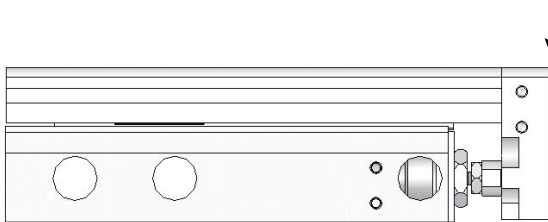
Multiply Force Factor x PSI = Pound force

Unit Output force (USM)

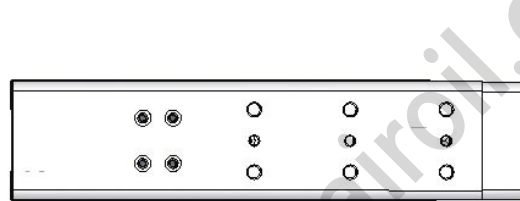
Bore	8mm	12mm	20mm	25mm
Extend (N)	3.83	9.00	28.66	44.00
Retract (N)	2.50	6.16	23.66	36.33

Multiply Force Factor x Bar = Newton force

Position A



Position B



Position "A" Kg (lbs.)		Bore			
Stroke	8mm (5/16)	12mm (9/16)	20mm (3/4)	25mm (1-1/16)	
25 - 50mm (1/2" - 2")	0.4 (0.9)	0.6 (1.3)	1.8 (3.9)	2.3 (5.0)	
80 - 100mm (3" - 4")	0.6 (1.3)	1.0 (2.4)	1.5 (3.3)	1.8 (4.0)	
125 - 160mm (5" - 6")	N/A	0.9 (2.0)	1.0 (2.1)	1.3 (2.8)	

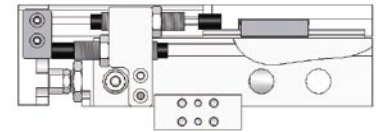
Position "B" Kg (lbs.)		Bore			
Stroke	8mm (5/16)	12mm (9/16)	20mm (3/4)	25mm (1-1/16)	
25 - 50mm (1/2" - 2")	0.5 (1.1)	0.7 (1.6)	2.1 (4.8)	2.7 (6.0)	
80 - 100mm (3" - 4")	0.7 (1.5)	1.0 (2.3)	1.6 (3.5)	2.0 (4.6)	
125 - 160mm (5" - 6")	N/A	1.2 (1.6)	1.0 (2.3)	1.5 (3.4)	

F1/F2 Kg (lbs.) Load over bearing		Bore			
Stroke	8mm (5/16)	12mm (9/16)	20mm (3/4)	25mm (1-1/16)	
25 - 50mm (1/2" - 2")	1.6 (3.6)	1.9 (4.3)	5.8 (12.8)	7.0 (15.5)	
80 - 100mm (3" - 4")	1.9 (4.3)	2.9 (6.4)	7.5 (16.6)	9.1 (20.1)	
125 - 160mm (5" - 6")	N/A	2.9 (6.4)	7.5 (16.6)	9.1 (20.1)	

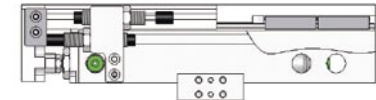
Bore	8mm (5/16)	8mm (5/16)	12mm (9/16)	12mm (9/16)
Stroke	25mm - 50mm (1/2" - 2")	80mm - 100mm (3" - 4")	25mm - 50mm (1/2" - 2")	80mm - 160mm (3" - 6")
M2 Nm (in. lbs.)	0.1 (0.9)	0.1 (1.3)	0.1 (1.3)	0.3 (2.4)
M3 Nm (in. lbs.)	0.1 (1.3)	0.1 (1.3)	0.3 (2.4)	0.3 (2.4)
M4 Nm (in. lbs.)	0.1 (1.3)	0.1 (1.3)	0.3 (2.4)	0.3 (2.4)

Bore	20mm (3/4")	20mm (3/4")	25mm (1-1/16")	25mm (1-1/16")
Stroke	25mm - 50mm (1/2" - 2")	80mm - 100mm (3" - 4")	25mm - 50mm (1/2" - 2")	80mm - 160mm (3" - 6")
M2 Nm (in. lbs.)	0.5 (4.3)	0.4 (4.0)	0.5 (5.0)	0.4 (4.0)
M3 Nm (in. lbs.)	0.4 (3.3)	0.4 (3.5)	0.4 (4.0)	0.3 (3.0)
M4 Nm (in. lbs.)	0.5 (4.3)	0.5 (4.0)	0.5 (5.0)	0.4 (4.0)

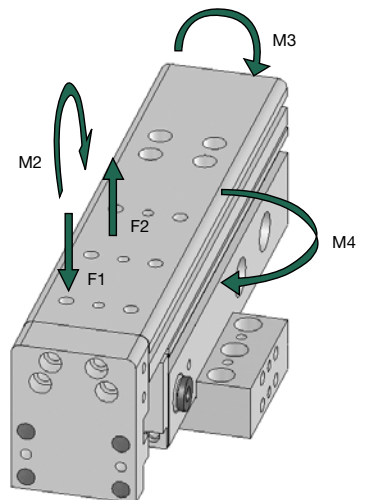
Bore sizes 5/16, 9/16, 8mm & 12mm with strokes 1/2" to 50 mm have one bearing block.



Bore sizes 5/16, 9/16, 8mm & 12mm with strokes over 2" & 50 mm have 2 bearing blocks.

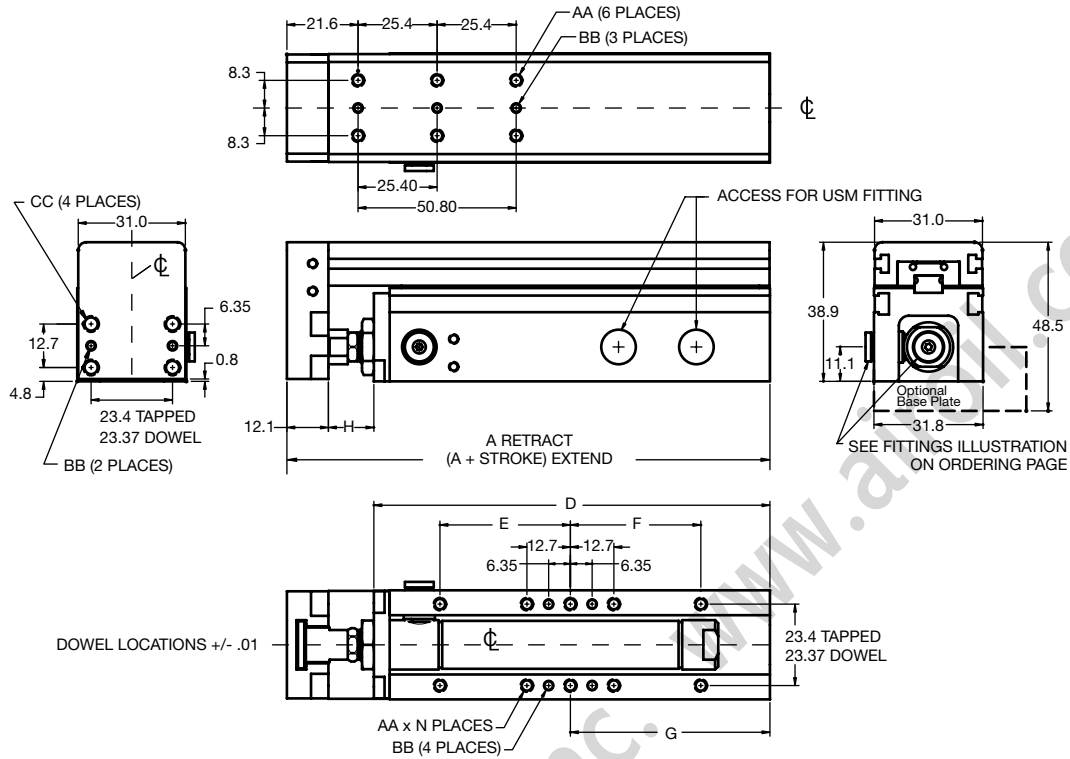


All other bores and strokes are standard with 2 bearing blocks for all strokes.





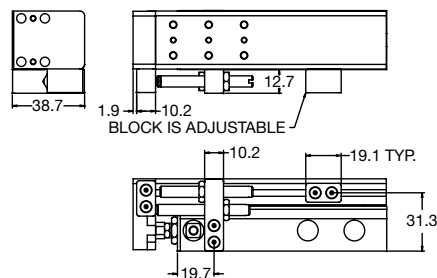
5/16 & 8mm Bore



mm (in)	Stroke (in)			
	25 mm-50 mm	1/2"-2"	80 mm-100 mm	3"-4"
A	145.7 (5.74)	136.4 (5.37)	195.8 (7.71)	186.4 (7.34")
D	112.5 (4.43)	112.5 (4.43)	162.6 (6.40)	162.6 (6.40)
E	N/A	N/A	38.1 (1.50)	38.1 (1.50)
F	38.1 (1.50)	38.1 (1.50)	38.1 (1.50)	38.1 (1.50)
G	66.6 (2.62)	66.6 (2.62)	84.9 (3.34)	84.9 (3.34)
H	21.1 (0.83)	11.7 (0.46)	21.1 (0.83)	11.7 (0.46)
N	8	8	10	10
AA	M4 x 0.7	M4 x 0.7	M4 x 0.7	M4 x 0.7
BB	3 mm (S.F.)	3 mm (S.F.)	3 mm (S.F.)	3 mm (S.F.)
CC	Tapped M5 x 0.8 C'Bored for M4 SHCS	Tapped M5 x 0.8 C'Bored for M4 SHCS	Tapped M5 x 0.8 C'Bored for M4 SHCS	Tapped M5 x 0.8 C'Bored for M4 SHCS

Stroke Adjustment Dimensions

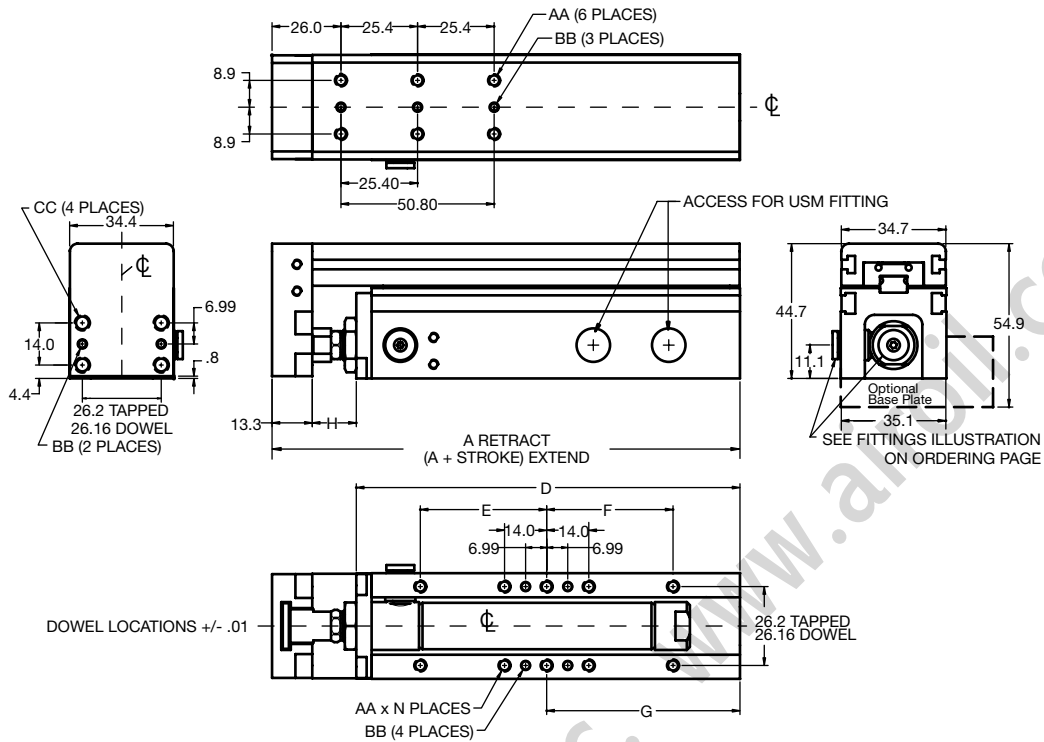
(can mount on either side)





Ultra Series

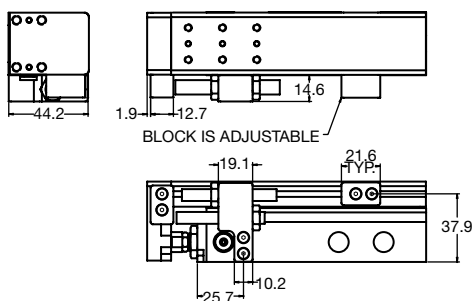
9/16 & 12mm Bore



mm (in)	Stroke (in)					
	25 mm-50 mm	1/2"-2"	80 mm-100 mm	3"-4"	125 mm-160 mm	5"-6"
A	163.9 (6.45)	155.2 (6.11)	213.1 (8.39)	204.3 (8.04)	274.2 (10.79)	265.4 (10.45)
D	127.2 (5.00)	127.2 (5.00)	176.4 (6.94)	176.4 (6.94)	237.4 (9.35)	237.4 (9.35)
E	N/A	N/A	41.9 (1.65)	41.9 (1.65)	41.9 (1.65)	41.9 (1.65)
F	41.9 (1.65)	41.9 (1.65)	41.9 (1.65)	41.9 (1.65)	41.9 (1.65)	41.9 (1.65)
G	76.4 (3.00)	76.4 (3.00)	95.1 (3.74)	95.1 (3.74)	116.2 (4.57)	116.2 (4.57)
H	23.4 (0.92)	14.6 (0.57)	23.4 (0.92)	14.6 (0.57)	23.4 (0.92)	14.6 (0.57)
N	8	8	10	10	10	10
AA	M4 x 0.7	M4 x 0.7	M4 x 0.7	M4 x 0.7	M4 x 0.7	M4 x 0.7
BB	3 mm (S.F.)	3 mm (S.F.)	3 mm (S.F.)	3 mm (S.F.)	3 mm (S.F.)	3 mm (S.F.)
CC	Tapped M5 x 0.8 C'Bored for M4 SHCS	Tapped M5 x 0.8 C'Bored for M4 SHCS	Tapped M5 x 0.8 C'Bored for M4 SHCS	Tapped M5 x 0.8 C'Bored for M4 SHCS	Tapped M5 x 0.8 C'Bored for M4 SHCS	Tapped M5 x 0.8 C'Bored for M4 SHCS

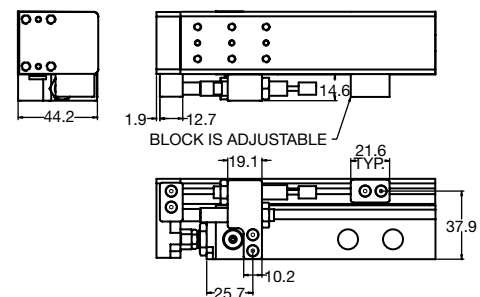
Stroke Adjustment Dimensions

(can mount on either side)



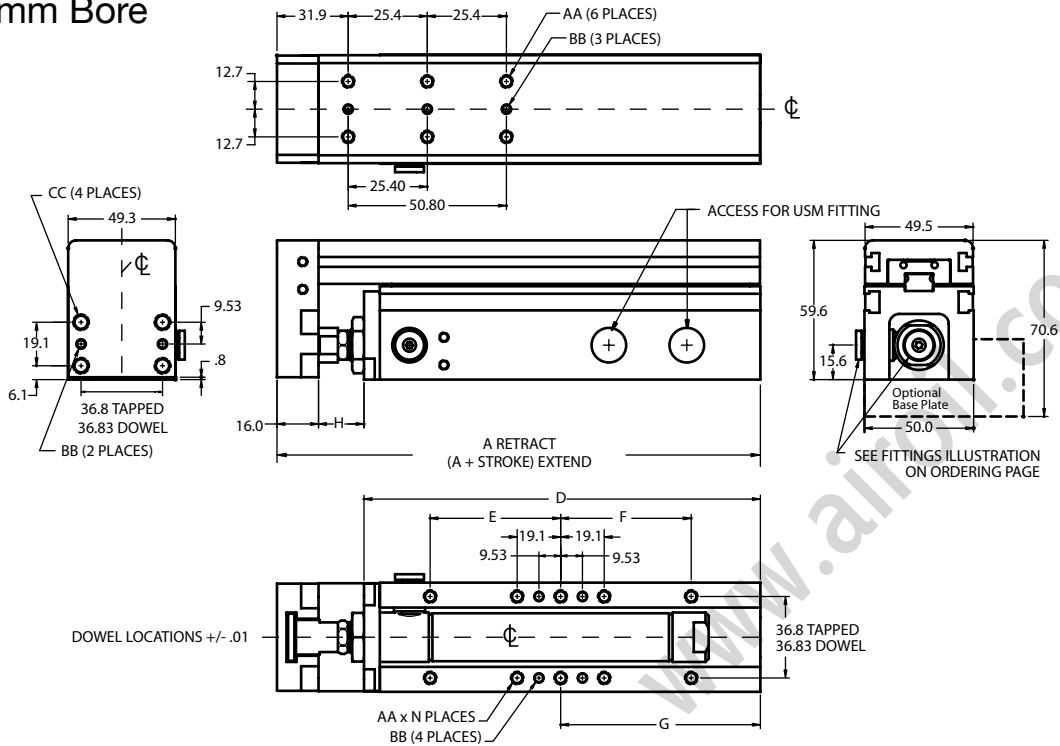
Shock Option Dimensions

(can mount on either side)



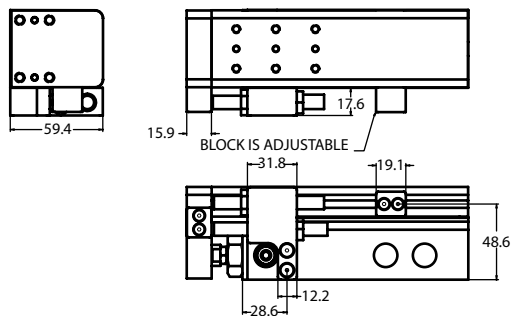


3/4 & 20 mm Bore

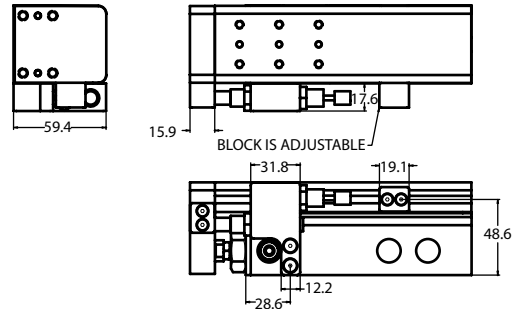


mm (in)	Stroke (in)					
	25 mm-50 mm	1/2"-2"	80 mm-100 mm	3"-4"	125 mm-160 mm	5"-6"
A	190.8 (7.51)	180.8 (7.12)	240.8 (9.48)	230.8 (9.09)	300.9 (11.84)	290.9 (11.46)
D	149.4 (5.88)	145.0 (5.71)	199.5 (7.85)	195.1 (7.68)	259.5 (10.22)	255.1 (10.04)
E	N/A	N/A	57.1 (2.25)	57.1 (2.25)	57.1 (2.25)	57.1 (2.25)
F	N/A	N/A	57.1 (2.25)	57.1 (2.25)	57.1 (2.25)	57.1 (2.25)
G	83.4 (3.28)	83.4 (3.28)	95.6 (3.76)	95.6 (3.76)	134.4 (5.29)	134.4 (5.29)
H	25.3 (0.99)	19.8 (0.77)	25.3 (0.99)	19.8 (0.77)	25.3 (0.99)	19.8 (0.77)
N	6	6	10	10	10	10
AA	M5 x 0.8	M5 x 0.8	M5 x 0.8	M5 x 0.8	M5 x 0.8	M5 x 0.8
BB	4 mm (S.F.)	4 mm (S.F.)	4 mm (S.F.)	4 mm (S.F.)	4 mm (S.F.)	4 mm (S.F.)
CC	Tapped M6 x 1.0 C'Bored for M5 SHCS	Tapped M6 x 1.0 C'Bored for M5 SHCS	Tapped M6 x 1.0 C'Bored for M5 SHCS	Tapped M6 x 1.0 C'Bored for M5 SHCS	Tapped M6 x 1.0 C'Bored for M5 SHCS	Tapped M6 x 1.0 C'Bored for M5 SHCS

Stroke Adjustment Dimensions (can mount on either side)



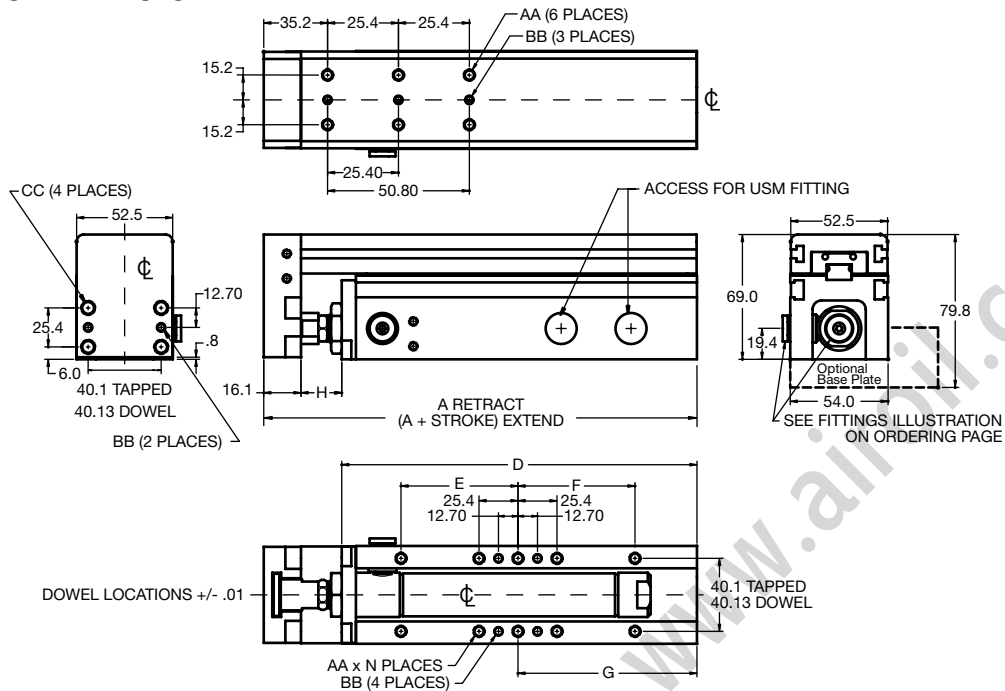
Shock Option Dimensions (can mount on either side)





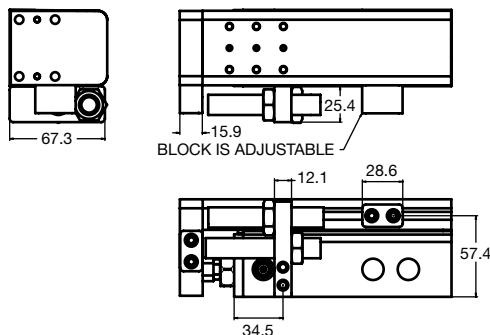
Ultra Series

1-1/16 & 25 mm Bore

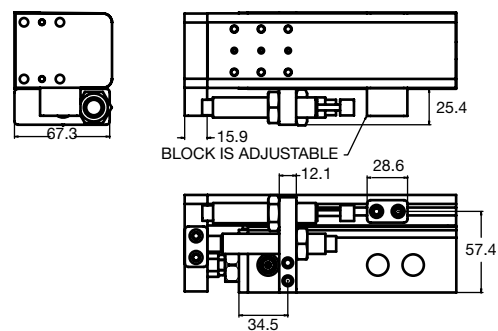


mm (in)	Stroke (in)					
	25 mm-50 mm	1/2"-2"	80 mm-100 mm	3"-4"	125 mm-160 mm	5"-6"
A	201.8 (7.94)	192.0 (7.56)	251.3 (9.89)	241.6 (9.51)	327.0 (12.87)	312.2 (12.29)
D	153.7 (6.05)	153.7 (6.05)	203.0 (8.00)	203.2 (8.00)	273.8 (10.78)	273.8 (10.78)
E	N/A	N/A	50.8 (2.00)	50.8 (2.00)	50.8 (2.00)	50.8 (2.00)
F	N/A	N/A	50.8 (2.00)	50.8 (2.00)	50.8 (2.00)	50.8 (2.00)
G	69.2 (2.72)	69.2 (2.72)	90.8 (3.57)	90.8 (3.57)	140.5 (5.53)	140.5 (5.53)
H	32.0 (1.26)	22.2 (0.87)	32.0 (1.26)	22.2 (0.87)	32.0 (1.26)	22.2 (0.87)
N	6	6	10	10	10	10
AA	M5 x 0.8	M5 x 0.8	M5 x 0.8	M5 x 0.8	M5 x 0.8	M5 x 0.8
BB	4 mm (S.F.)	4 mm (S.F.)	4 mm (S.F.)	4 mm (S.F.)	4 mm (S.F.)	4 mm (S.F.)
CC	Tapped M6 x 1.0 C'Bored for M5 SHCS	Tapped M6 x 1.0 C'Bored for M5 SHCS	Tapped M6 x 1.0 C'Bored for M5 SHCS	Tapped M6 x 1.0 C'Bored for M5 SHCS	Tapped M6 x 1.0 C'Bored for M5 x 0.8	Tapped M6 x 1.0 C'Bored for M5 SHCS

Stroke Adjustment Dimensions (can mount on either side)

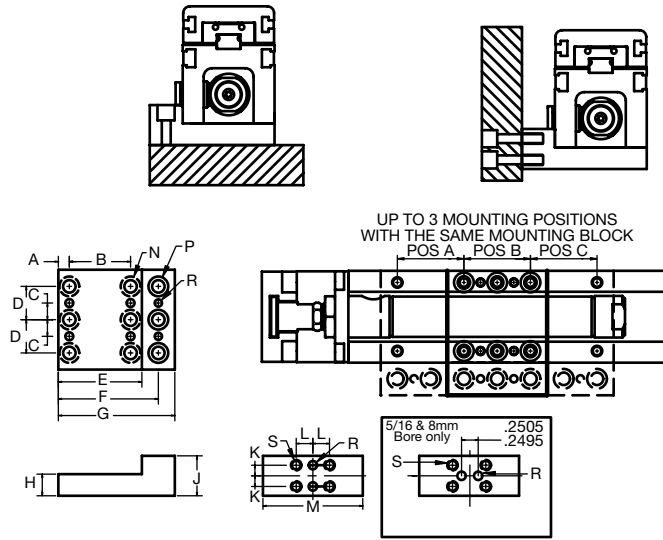


Shock Option Dimensions (can mount on either side)





Base Plate



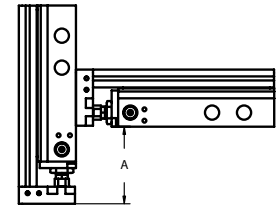
mm (in)	Stroke (in)			
	8mm & 5/16	12mm & 9/16	20mm & 3/4	25mm & 1-1/16
A	4.2 (0.16)	4.6 (0.17)	6.4 (0.25)	6.7 (0.26)
B	23.4 (0.92)	26.2 (1.03)	36.8 (1.45)	40.1 (1.57)
C	6.35 (0.25)	6.99 (0.27)	9.53 (0.37)	12.70 (0.50)
D	12.7 (0.50)	14.0 (0.55)	19.1 (0.75)	25.4 (1.00)
E	32 (1.25)	35.4 (1.39)	50.0 (1.97)	54.1 (2.12)
F	37.21 (1.46)	41.02 (1.61)	56.13 (2.20)	61.21 (2.40)
G	45.2 (1.77)	50.6 (1.99)	68.3 (2.69)	80.0 (3.15)
H	9.7 (0.37)	10.2 (0.40)	11.1 (0.43)	10.8 (0.42)
J	15.2 (0.60)	15.3 (0.60)	18.3 (0.72)	22.23 (0.87)
K	4.06 (0.16)	4.06 (0.16)	4.83 (0.19)	5.77 (0.23)
L	N/A	7.0 (0.27)	9.3 (0.37)	16.5 (0.65)
M	38.1 (1.50)	38.1 (1.50)	50.8 (2.00)	71.1 (2.80)
N	C'Bored for M4 SHCS	C'Bored for M4 SHCS	C'Bored for M5 SHCS	C'Bored for M5 SHCS
P	C'Bored for M4 SHCS	C'Bored for M4 SHCS	C'Bored for M5 SHCS	C'Bored for M6 SHCS
R	3 MM (S.F.)	3 MM (S.F.)	4 MM (S.F.)	4 MM (S.F.)
S	M4 x 0.7 Tap x 8 DP	M4 x 0.7 Tap x 8 DP	M5 x 0.8 Tap x 10 DP	M6 x 1.0 Tap x 12 DP

NuMate Dimensions A

Stroke (in)	Bore			
	5/16"	9/16"	3/4"	1-1/16"
X5 - 02"	2.13	2.37	2.85	3.57
3" - 4"	3.31	3.57	4.33	4.67
5" - 6"	N/A	5.15	5.17	5.50

Metric Dimension A

Stroke (mm)	Bore			
	8mm	12mm	20mm	25mm
25 - 50mm	70.4	70	77.9	105.5
80 - 100mm	100.4	99.4	115.5	133.5
125 - 160mm	N/A	139.6	136.8	154.6



When Ordering Additional Base Plates

Bore	Part No.
5/16 & 8mm	US-BP08
9/16 & 12mm	US-BP12
3/4 & 20mm	US-BP20
1-1/16 & 25mm	US-BP25

Maximum Base plates allowed per stroke

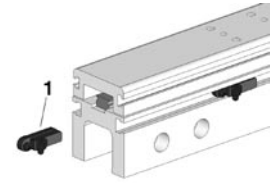
Stroke	Bore			
	5/16 (8mm)	9/16 (12mm)	3/4 (20mm)	1-1/16 (25mm)
1/2" - 2"	1	1	1	1
3" - 4"	1	1	2	2
5" - 6"	N/A	2	2	2



Ultra Series

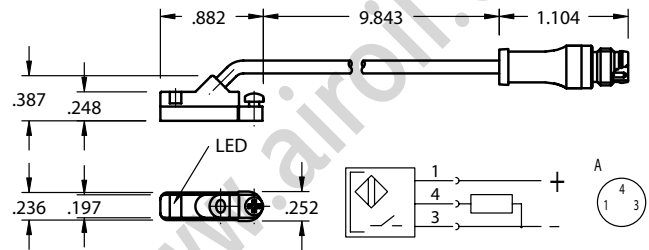
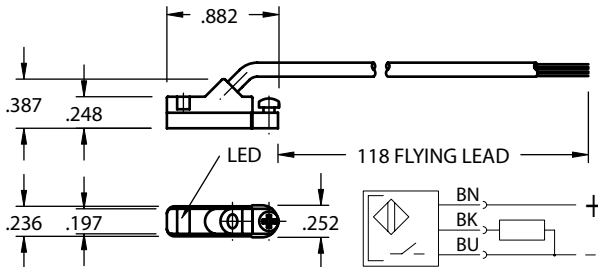
Ultra Series Switch Information

	SWITCH OR BRACKET DESCRIPTION	STANDARD PART NO.	QUICK DISCONNECT PART NO.
1	Hall Effect - PNP (Sourcing)	HPNPS31	HPNPQ31
1	Hall Effect -NPN (Sinking)	HNPNS32	HNPNQ32



HPNPS31 – Electronic Switch (PNP NO), flying lead

HPNPQ31 – 8mm connector



Sensing Data

Ambient temperature range t_d	(°F/°C)	-13 to +158 (-25 to +70)
Temperature drift	(% of)	$\leq 0.3\%/^{\circ}\text{C}$
Frequency of operating cycles f at U_e	(kHz)	10
Turn on time t	(ms)	.05
turn off time t	(ms)	.05
Utilization categories		DC13
Function-/supply voltage indication		YES

Mechanical Data

Housing material	Polyamide
Material of sensing face	Polyamide
Connection	PVC cable
Degree of Protection	IP 67
Rated shock: half-sinus, 30 g, 11 ms	
Rated vibration environment: 55 Hz, 1mm amplitude, 3 x 30	

Electrical Data

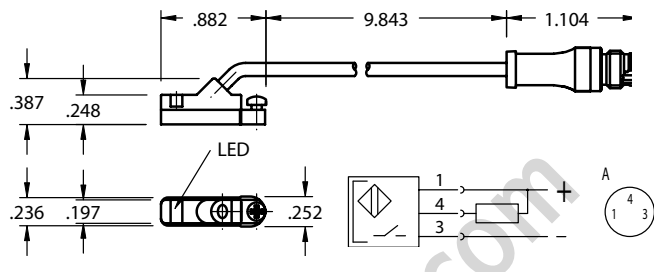
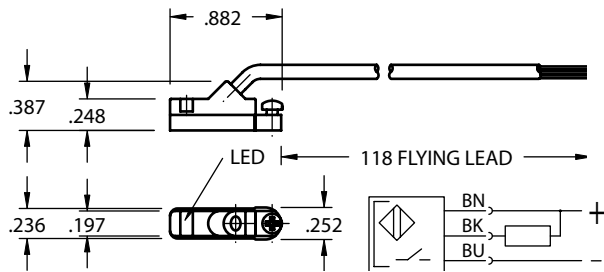
Rated operational voltage U_e	(V)	24 DC
Supply voltage U_B	(V)	10...30 DC
incl. ripple	(% of U_e)	15
Voltage drop U_d at I_e Stat./dyn.	(V)	1/-
Rated insulation voltage U_i	(V)	75 AC
Rated supply frequency	(Hz)	DC
Rated operational current I_e	(mA)	200
No-load supply current I_o at U_e d./und.	(mA)	25/13
Protected against polarity reversal		YES





HNPNS32 – Electronic Switch (NPN NO), flying lead

HNPNQ32 – 8mm connector



Sensing Data

Ambient temperature range t_d	(°F/°C)	-13 to +158 (-25 to +70)
Temperature drift	(% of S_r)	$\leq 0.3\%/^{\circ}\text{C}$
Frequency of operating cycles f at U_e	(kHz)	10
Turn on time t	(ms)	.05
Turn off time t	(ms)	.05
Utilization categories		DC13
Function—supply voltage indication		YES

Electrical Data

Rated operational voltage U_e	(V)	24 DC
Supply voltage U_B	(V)	10...30 DC
incl. ripple	(% of U_e)	15
Voltage drop U_d at I_e Stat./dyn.	(V)	1/-
Rated insulation voltage U_i	(V)	75 AC
Rated supply frequency	(Hz)	DC
Rated operational current I_e	(mA)	200
No-load supply current I_o at U_e d./und.	(mA)	25/13
Protected against polarity reversal		YES

Mechanical Data

Housing material	Polyamide
Material of sensing face	Polyamide
Connection	PVC cable
Degree of Protection	IP 67
Rated shock: half-sinus, 30 g, 11 ms	
Rated vibration environment: 55 Hz, 1mm amplitude, 3 x 30	

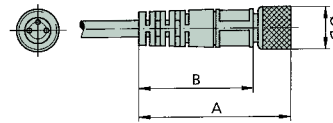


Female Connectors for Reed Switches and Hall Effect Sensors

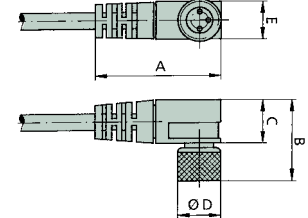
Dimensions (mm)

TYPE	ORDER CODE
Straight, 5 m Cable	PXCST
Elbow, 5 m Calbe	PXC90

Straight Type



Elbow Type



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