

# Rails for Switches and Sensors

Calibrated with Configurable L-Dimension / Rails for Photomicrosensors / Bar Nuts

Features: Calibrated rails facilitate setup of sensors.

**Rails for Switches and Sensors – Calibrated with Configurable L-Dimension**

Shape A SENAS	Shape B SENBS	Shape C SENC3	Material	Surface Treatment
			6063-T5 Aluminum Alloy	Clear Anodize

RoHS 10

- No anodizing on the ends and inner surface.
- Burrs remain inside of the mounting holes.
- Rail will be cut at an arbitrary place and an actual scale will not be the same as shown above. The scale does not have numbers.

Calibrated with Configurable L-Dimension No. indicates the applicable nut size. For Shape A (SENAS), the inside of groove is slightly milled.

Part Number	Type	No.	L Selection
Shape A	SENAS	3	50-200
Shape B	SENBS		
Shape C	SENC3		

Part Number Example

Part Number	-	L
SENAS3	-	100
SENC33	-	150

**Rails for Switches and Sensors – Rails for Photomicrosensors**

RoHS 10

Material: Low Carbon Steel Surface Treatment: Trivalent Chromate

Part Number	Type	Pitch	L Selection
MPSEN		7	50 60 70 80 90 100
		19	

Part Number Example

Part Number	-	L
MPSEN7	-	70

MPSEN19-70 is not available

Type with Nut Retainer to prevent nuts from falling when using sensor rails in vertical mount positions.

**Rails for Switches and Sensors – Bar Nuts**

Type	Standard	With Nut Retainer	Material	Surface Treatment
SQN	SQN	SQNH	Low Carbon Steel	Trivalent Chromate Plating
SQNS	SQNS	-	304 Stainless Steel	-

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Tapped holes may be somewhat deformed by manufacturing process. (It does NOT affect fitting.)

Part Number Example

Part Number	-	A	-	P
SQN4	-	36	-	25.4

Part Number Alterations

Part Number	-	A	-	(PC)
SQN4	-	28	-	PC13

Type	M	A		P		B	T
		SQN	SQNS	SQN	SQNS		
2	2	15	8			4.0	1.6
		25	18				
		15	6	(6.5)	7*		
3	3	20	8	9	10*	5.4	2.3
		25	14	16	18		
		32	22	24	24.5		
		28	16*	(16.5)	(18)		
		32	20*	(22)	(23)		
4	4	36	25	(25.4)		6.8	3.2
		52	(33)	(40)	(42)		
		40	25	28			
		42	30	30.2			
		52	32	40	42		
5	5	42	30	30.2		7.8	3.2
		72	50	54	60		

Alteration	Code	Spec.
Pitch Dimension	PC	Changes the hole pitch. PC = 1 mm Increment (P Specification is not required) Ordering Code: PC13 SQNH is not applicable.

Dimensions in ( ) are not applicable to SQNS. SQNH is applicable to P dimensions denoted with \*.  
SQN2-25-18 and SQNS3-15-6.5 are not available. For orders larger than indicated quantity, please request a quotation.

# Rails for Switches and Sensors

Steel Rails / Rail Mounts / Rail Nuts

**Rails for Switches and Sensors – Steel Rails**

**Selectable L-Dimension 2RU**

**Configurable L-Dimension and Hole Position. 2RUS**

RoHS 10

Material: Low Carbon Steel Surface Treatment: Trivalent Chromate

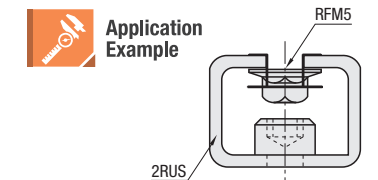
No trivalent chromate treated on the ends and inner surface.

Part Number	L Selection
2RU	100
	200
	300
	400
	500
	600
	1000
1500	

Part Number		1 mm Increment	
Type	No. of Holes	L	V W X Y Z
2RUS	0H (No Hole)	50-1200	10-1190
	2H		
	3H		
	4H		
	5H		

Part Number Example

Part Number	-	L	-	V	-	W	-	X	-	Y	-	Z
2RU	-	400										
2RUS5H	-	660	-	V30	-	W180	-	X330	-	Y480	-	Z630



2RU can be mounted in two ways. It can be screwed on by inserting rail mount fittings (2P) into both ends, or weld the rails directly onto a machine.  
For attachment of 2RUS, use M6 hex socket head cap screws. Applicable nut is RFM5. The RFM5 and the screws will not interfere as shown in the example.

**Rails for Switches and Sensors – Rail Mount Fittings**

**2P**

RoHS 10

Material: Low Carbon Steel Surface Treatment: Trivalent Chromate

**How to Attach 2P**

Insert the nuts from either end of the rail. (Tap in lightly with a hammer.)  
An RFM nut can be inserted with the 2P fitting attached.

**Rails for Switches and Sensors – Nuts for Rail**

**RFM5**

RoHS 10

Parts	Material	Surface Treatment
Frame	304 Stainless Steel	-
Nut	SWRM Low Carbon Steel 10 Carbon Wire Steel (JIS)	Trivalent Chromate

**How to Attach RFM Nuts**

RFM and RXM nuts utilize stainless steel spring tension to prevent from falling even when installed on vertical rails.  
Mounting of Parts

**Rails for Switches and Sensors – Nuts for Rail**

**RXM5**

RoHS 10

Parts	Material	Surface Treatment
Frame	304 Stainless Steel	-
Nut	1018 Carbon Steel or Equivalent	Trivalent Chromate

**How to Attach RXM Nuts**

The RXM nuts can be easily attached in the middle of a rail to facilitate convenient component additions even after the machine building has been completed.

- Place the RXM nut's spring tip on the rail groove and press it with fingers.
- Push the center and either side of the RXM nut diagonally with a fingernail.
- Slightly lift the other side of the RXM nut together with its spring, and push it into the rail groove.
- The RXM nut is now fitted in rail.

Part Number Example

Part Number	-	2P
	-	RFM5