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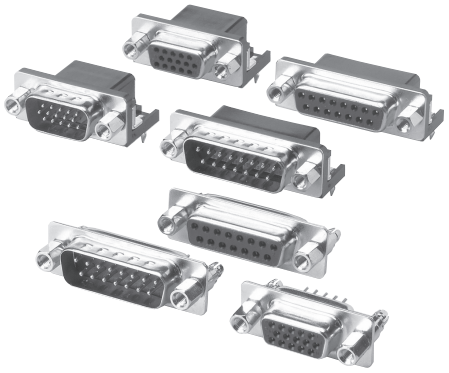
D-sub Connectors

XM3-L/XM2-L/ XM4K/XM4L

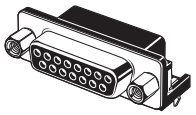
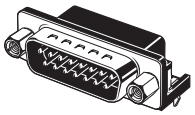
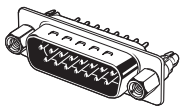
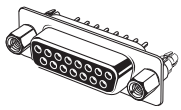
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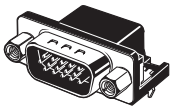
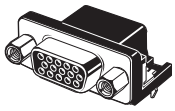
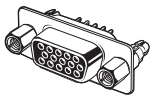
The D-sub Connector Series Enters a New Era with Lead-free Products.

- Determine anchor screw diameters at a glance.
- Greatly simplified anchor combinations.
- Shielded against EMI.
- See the "Standards certification / conformity list" for information on conformity to certification standards.



■ Connectors

Classification	D-sub Connectors			
Model	XM3B-L	XM2C-L	XM2E-L	XM2F-L
Type	Sockets with Right-angle DIP Terminals	Plugs with Right-angle DIP Terminals	Plugs with Straight DIP Terminals	Sockets with Straight DIP Terminals
Appearance				

Classification	High-density D-sub Connectors		
Model	XM4K	XM4L	XM4L
Type	Plugs with Right-angle DIP Terminals	Sockets with Right-angle DIP Terminals	Sockets with Straight DIP Terminals
Appearance			

■ Ratings and Characteristics

Rated current	3 A
Rated voltage	300 VAC
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength	1,000 VAC for 1 min (leakage current: 1 mA max.)
Insertion durability	100 times
Ambient operating temperature	– 25 to 105°C (with no condensation or icing)

■ Materials and Finish

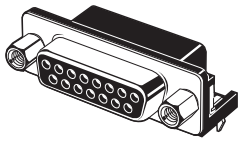
Housing			PBT (UL94 V-0)/black
Contact	Socket	Mating end	Phosphor bronze/nickel base, flash gold plated
		Terminal	
	Plug	Mating end	Brass/Nickel base, flash gold plated
		Terminal	
Shell			Steel
Anchors			Steel
Grounding Fixture		Straight	Brass/Nickel plated
		Right angle	Brass/Tin plated

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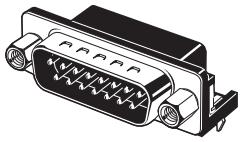
XM3-L/XM2-L/XM4K/XM4L D-sub Connectors

■ Ordering Information

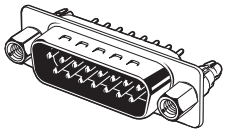
D-sub Sockets with Right-angle DIP Terminals

Appearance			
Accessories / No. of contacts	No anchors	Anchor 2 (XM4Z-0011) M2.6 × 0.45	Anchor 2 (XM4Z-0013) #4-40 UNC
9	XM3B-0942-502L	XM3B-0942-112L	XM3B-0942-132L
15	XM3B-1542-502L	XM3B-1542-112L	XM3B-1542-132L
25	XM3B-2542-502L	XM3B-2542-112L	XM3B-2542-132L

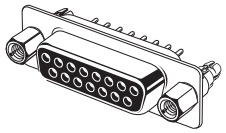
D-sub Plugs with Right-angle DIP Terminals

Appearance			
Accessories / No. of contacts	No anchors	Anchor 2 (XM4Z-0011) M2.6 × 0.45	Anchor 2 (XM4Z-0013) #4-40 UNC
9	XM2C-0942-502L	XM2C-0942-112L	XM2C-0942-132L
15	XM2C-1542-502L	XM2C-1542-112L	XM2C-1542-132L
25	XM2C-2542-502L	XM2C-2542-112L	XM2C-2542-132L

D-sub Plugs with Straight DIP Terminals

Appearance				
Accessories / No. of contacts	No anchors Without ground pins	No anchors	Anchor 2 (XM4Z-1011) M2.6 × 0.45	Anchor 2 (XM4Z-1013) #4-40 UNC
9	XM2E-0940-L	XM2E-0940-502L	XM2E-0940-112L	XM2E-0940-132L
15	XM2E-1540-L	XM2E-1540-502L	XM2E-1540-112L	XM2E-1540-132L
25	XM2E-2540-L	XM2E-2540-502L	XM2E-2540-112L	XM2E-2540-132L

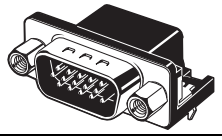
D-sub Sockets with Straight DIP Terminals

Appearance				
Accessories / No. of contacts	No anchors Without ground pins	No anchors	Anchor 2 (XM4Z-1011) M2.6 × 0.45	Anchor 2 (XM4Z-1013) #4-40 UNC
9	XM2F-0940-L	XM2F-0940-502L	XM2F-0940-112L	XM2F-0940-132L
15	XM2F-1540-L	XM2F-1540-502L	XM2F-1540-112L	XM2F-1540-132L
25	XM2F-2540-L	XM2F-2540-502L	XM2F-2540-112L	XM2F-2540-132L

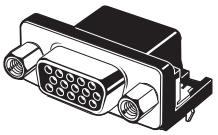
Note: For other models with Anchors, contact your OMRON representative.

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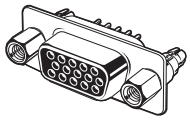
High-density D-sub Plugs with Right-angle DIP Terminals

Appearance			
Accessories	No anchors	Anchor 2 (XM4Z-0011) M2.6 × 0.45	Anchor 2 (XM4Z-0013) #4-40 UNC
No. of contacts			
15	XM4K-1542-502	XM4K-1542-112	XM4K-1542-132

High-density D-sub Sockets with Right-angle DIP Terminals

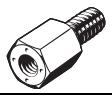
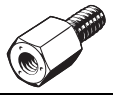
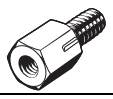
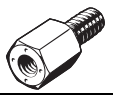
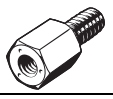
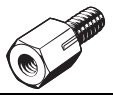
Appearance			
Accessories	No anchors	Anchor 2 (XM4Z-0011) M2.6 × 0.45	Anchor 2 (XM4Z-0013) #4-40 UNC
No. of contacts			
15	XM4L-1542-502	XM4L-1542-112	XM4L-1542-132

High-density D-sub Sockets with Straight DIP Terminals

Appearance			
Accessories	No anchors	Anchor 2 (XM4Z-1011) M2.6 × 0.45	Anchor 2 (XM4Z-1013) #4-40 UNC
No. of contacts			
15	XM4L-1541-502	XM4L-1541-112	XM4L-1541-132

Note: For other models with Anchors, contact your OMRON representative.

Anchor 2 (Screw Head Length: 5.8 mm)

Type	For right-angle DIP terminals			For straight DIP terminals		
Appearance						
Lock screw	M2.6 × 0.45	M3 × 0.5	#4-40 UNC	M2.6 × 0.45	M3 × 0.5	#4-40 UNC
Model	XM4Z-0011	XM4Z-0012	XM4Z-0013	XM4Z-1011	XM4Z-1012	XM4Z-1013

Anchor 3 (Screw Head Length: 4.8 mm)

Type	For right-angle DIP terminals			For straight DIP terminals		
Appearance						
Lock screw	M2.6 × 0.45	M3 × 0.5	#4-40 UNC	M2.6 × 0.45	M3 × 0.5	#4-40 UNC
Model	XM4Z-0021	XM4Z-0022	XM4Z-0023	XM4Z-1021	XM4Z-1022	XM4Z-1023

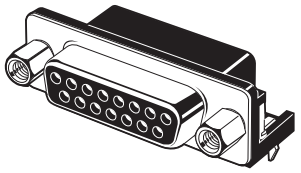
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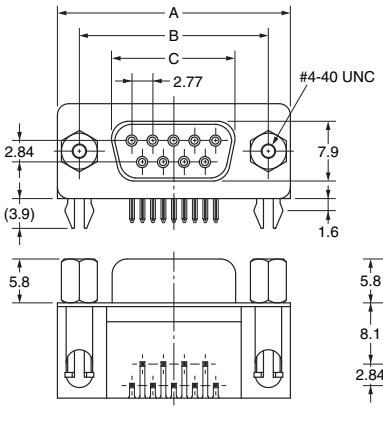
■ Dimensions

(unit: mm)

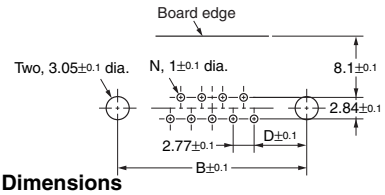
D-sub Sockets with Right-angle DIP Terminals

XM3B-0942-132L
XM3B-1542-132L
XM3B-2542-132L





Mounting holes (t = 1.6 mm, bottom view)

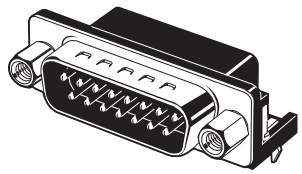


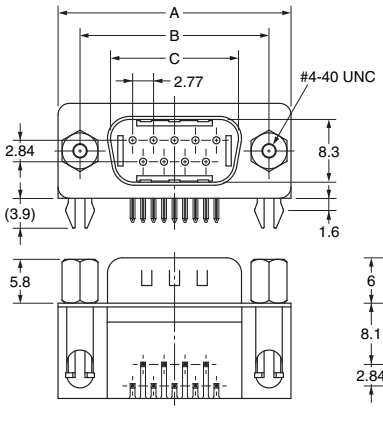
Dimensions

No. of contacts (N)	A	B	C	D
9	30.8	24.99	16.33	6.96
15	39.1	33.32	24.66	6.96
25	53.0	47.04	38.38	6.91

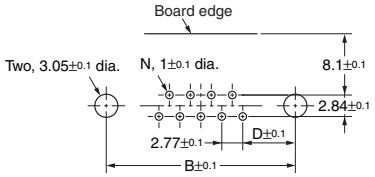
D-sub Plugs with Right-angle DIP Terminals

XM2C-0942-132L
XM2C-1542-132L
XM2C-2542-132L





Mounting holes (t = 1.6 mm, bottom view)

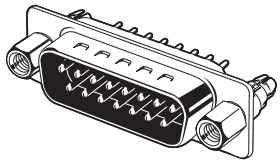


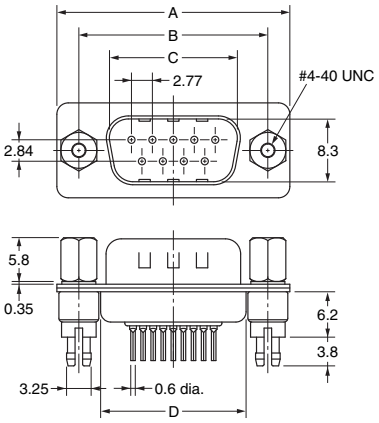
Dimensions

No. of contacts (N)	A	B	C	D
9	30.8	24.99	16.92	6.96
15	39.1	33.32	25.25	6.96
25	53.0	47.04	38.96	6.91

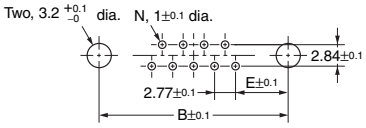
D-sub Plugs with Straight DIP Terminals

XM2E-0940-132L
XM2E-1540-132L
XM2E-2540-132L





Mounting holes (t = 1.6 mm, bottom view)



Dimensions

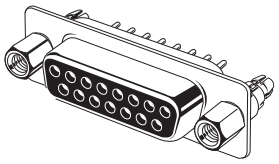
No. of contacts (N)	A	B	C	D	E
9	30.8	24.99	16.92	19.23	6.96
15	39.1	33.32	25.25	27.56	6.96
25	53.0	47.04	38.96	41.28	6.91

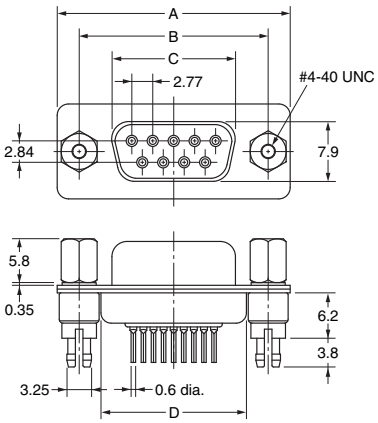
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D-sub Sockets with Straight DIP Terminals

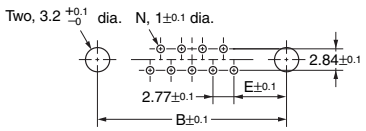
(unit: mm)

XM2F-0940-132L
XM2F-1540-132L
XM2F-2540-132L





Mounting holes (t = 1.6 mm, bottom view)

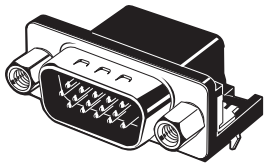


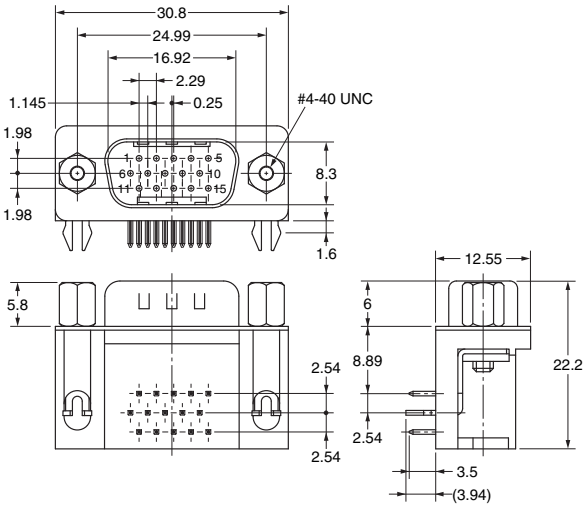
Dimensions

No. of contacts (N)	A	B	C	D	E
9	30.8	24.99	16.33	19.23	6.96
15	39.1	33.32	24.66	27.56	6.96
25	53.0	47.04	38.38	41.28	6.91

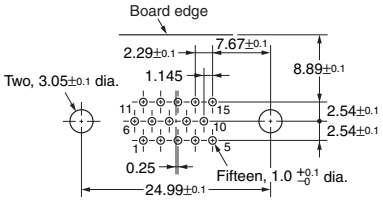
High-density D-sub Plugs with Right-angle DIP Terminals

XM4K-1542-132



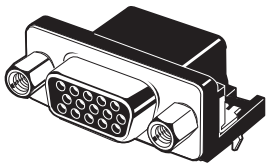


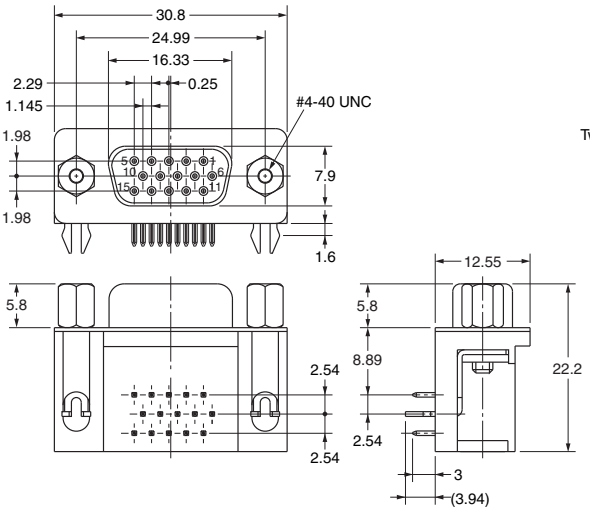
Mounting holes (t = 1.6 mm, bottom view)



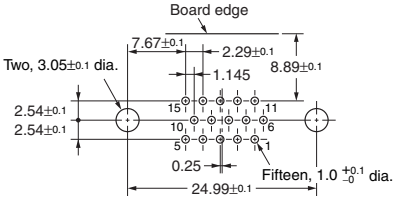
High-density D-sub Sockets with Right-angle DIP Terminals

XM4L-1542-132





Mounting holes (t = 1.6 mm, bottom view)

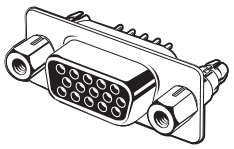


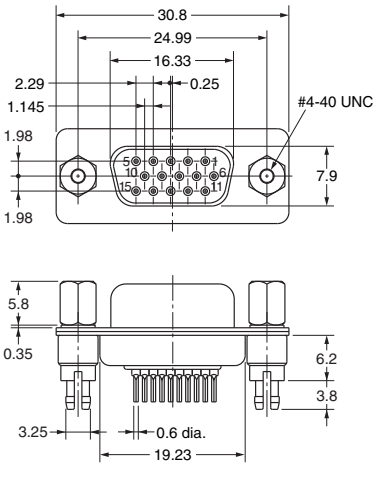
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High-density D-sub Sockets with Straight DIP Terminals

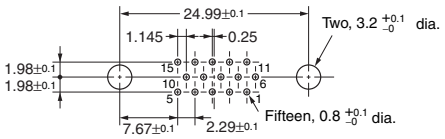
(unit: mm)

XM4L-1541-132



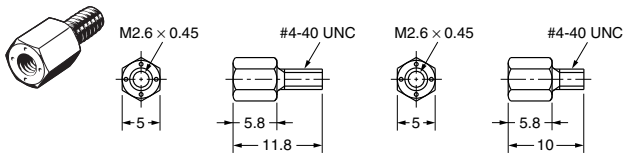


Mounting holes (t = 1.6 mm, bottom view)

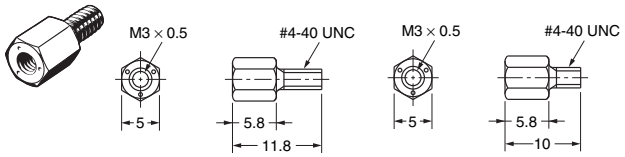


Anchor 2

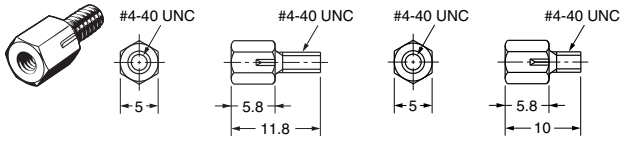
XM4Z-0011 **XM4Z-1011**



XM4Z-0012 **XM4Z-1012**

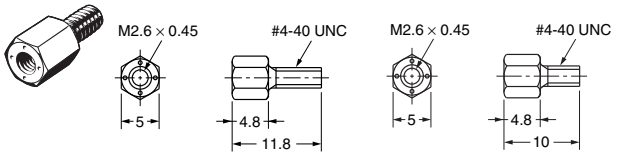


XM4Z-0013 **XM4Z-1013**

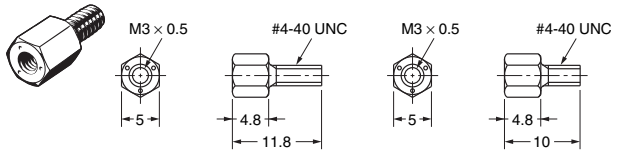


Anchor 3

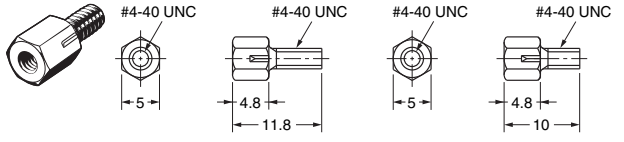
XM4Z-0021 **XM4Z-1021**



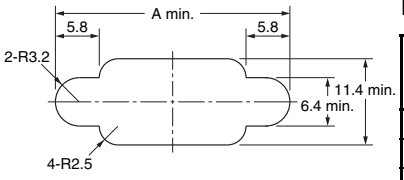
XM4Z-0022 **XM4Z-1022**



XM4Z-0023 **XM4Z-1023**



Dimensions: Not Panel Mounted (Using Anchor 2)



Dimensions

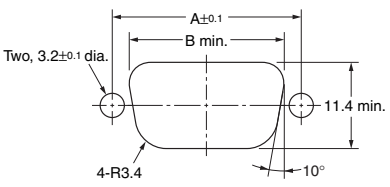
No. of contacts (N)	A
9 (See note.)	31.0
15	39.4
25	53.3

Note: 1. Two Anchors are required per Connector.

2. Applicable panel thickness is less than 1.2 mm.

Note: The XM4K and XM4L use 9-contact dimensions.

Dimensions: Panel Mounted (Using Anchor 3 or M3 Screws)



Dimensions

No. of contacts (N)	A	B
9 (See note.)	24.99	20.5
15	33.32	28.8
25	47.04	42.5

Note: 1. Two Anchors are required per Connector.

2. Applicable panel thickness is less than 1.2 mm.

Note: The XM4K and XM4L use 9-contact dimensions.

Note: 2 anchors are necessary per connector.

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Combination of hexagonal anchors for each connector (in post installation)

Type	Model	Without panel insertion	With panel insertion	Commercially available nut
DIP Right-angle socket	XM4L-1542-502	XM4Z-001□	XM4Z-002□	Not necessary
	XM3B-□□42-502L			
DIP Right-angle plug	XM4K-1542-502	XM4Z-001□	XM4Z-002□	Not necessary
	XM2C-□□42-502L			
DIP straight socket	XM4L-1541-502	XM4Z-101□	XM4Z-102□	Not necessary
	XM2F-□□40-L			Necessary
	XM2F-□□40-502L			Not necessary
DIP straight plug	XM2E-□□40-L	XM4Z-101□	XM4Z-102□	Necessary
	XM2E-□□40-502L			Not necessary

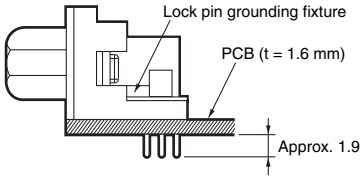
Downloaded from Arrow.com.

■ Precautions

Correct Use

●Grounding (Lock Pin Grounding Fixture)

- To ground, provide copper foil around the Connector Attachment hole on the board, assemble the connector and grounding fixture, and dip in solder as shown below.
- Insert the connector into the PCB and then simultaneously dip-solder the connector terminals and lock pin to the board.



●Soldering

Automated Soldering Conditions (Jet Flow)

1. Soldering temperature: 250 ±5°C
2. Continuous soldering time: Within 5±1 s

●Tightening Torque of Anchor and Grounding Fixture

If the anchor is secured to the connector, be sure to tighten it to a torque of 0.49 N·m.

Also, use a proper size tool to do this work.

●Mating

Do not connect the Connectors in the wrong direction, otherwise it may be damaged.

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