

The most compact connector type in the M-Series range, Bulgin's waterproof M5 sensor connectors come in straight and angled forms with PVC or PUR overmolded cable options and a variety of panel mount receptacles.



With an industry standard screw coupling mechanism and IP67 rating, this circular connector product line is particularly suited to automotive, process control, commercial electronics & instrumentation applications that require reliable and robust miniature sensors.

Key features:

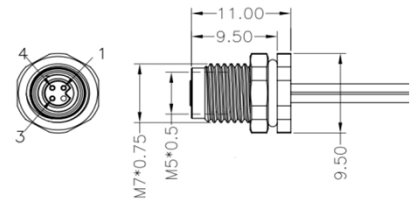
- Secure & reliable screw locking mechanism
- Robust PVC & PUR overmolded cables
- Cable length from 1m - 15m
- High degree of environmental protection - IP67 rated
- Straight & right angled cable connectors
- Rear & front panel mount receptacles
- Available with 3 or 4 poles

M5 Rear Panel Mounting Female



PXMBNI05RPF

- Available in 3 and 4 poles
- PCB or flying lead termination
- Rear panel mounting M7 nut
- Mates with Flex Inline Body connectors



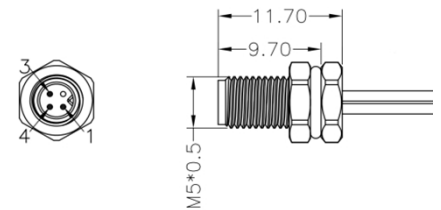
Part Number	Poles	Code	Termination	Lead Length
PXMBNI05RPF03AFL001	03	A	Flying Lead	100 mm Lead Length
PXMBNI05RPF03AFL002	03	A	Flying Lead	200 mm Lead Length
PXMBNI05RPF03AFL003	03	A	Flying Lead	300 mm Lead Length
PXMBNI05RPF04AFL001	04	A	Flying Lead	100 mm Lead Length
PXMBNI05RPF04AFL002	04	A	Flying Lead	200 mm Lead Length
PXMBNI05RPF04AFL003	04	A	Flying Lead	300 mm Lead Length
PXMBNI05RPF03APC	03	A	PCB Terminal	-
PXMBNI05RPF04APC	04	A	PCB Terminal	-

M5 Rear Panel Mounting Male



PXMBNI05RPM

- Available in 3 and 4 poles
- PCB or flying lead termination
- Rear panel mounting M5 nut
- Mates with Flex Body connectors



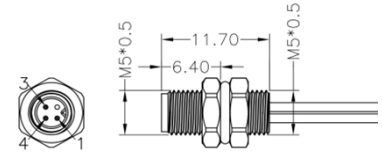
Part Number	Poles	Code	Termination	Lead Length
PXMBNI05RPM03AFL001	03	A	Flying Lead	100 mm Lead Length
PXMBNI05RPM03AFL002	03	A	Flying Lead	200 mm Lead Length
PXMBNI05RPM03AFL003	03	A	Flying Lead	300 mm Lead Length
PXMBNI05RPM04AFL001	04	A	Flying Lead	100 mm Lead Length
PXMBNI05RPM04AFL002	04	A	Flying Lead	200 mm Lead Length
PXMBNI05RPM04AFL003	04	A	Flying Lead	300 mm Lead Length
PXMBNI05RPM03APC	03	A	PCB Terminal	-
PXMBNI05RPM04APC	04	A	PCB Terminal	-

M5 Front Panel Mounting Male



PXMBNI05FPM

- Available in 3 and 4 poles
- PCB or flying lead termination
- Rear panel mounting M5
- Mates with Flex Body connectors



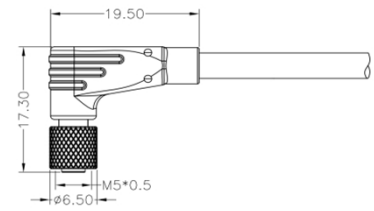
Part Number	Poles	Code	Termination	Lead Length
PXMBNI05FPM03AFL001	03	A	Flying Lead	100 mm Lead Length
PXMBNI05FPM03AFL002	03	A	Flying Lead	200 mm Lead Length
PXMBNI05FPM03AFL003	03	A	Flying Lead	300 mm Lead Length
PXMBNI05FPM04AFL001	04	A	Flying Lead	100 mm Lead Length
PXMBNI05FPM04AFL002	04	A	Flying Lead	200 mm Lead Length
PXMBNI05FPM04AFL003	04	A	Flying Lead	300 mm Lead Length
PXMBNI05FPM03APC	03	A	PCB Terminal	-
PXMBNI05FPM04APC	04	A	PCB Terminal	-

M5 Right Angled Female



PXPTPU05RAF
PXPPVC05RAF

- Available in 3 and 4 poles
- 1,2,3,5,10 & 15M cable options
- Overmold Flex Body
- Mates with Flex Inline Body & panel mount connectors



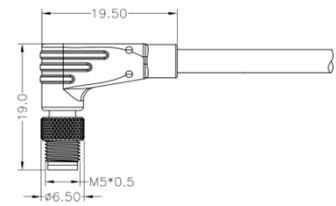
Part Number	Poles	Code	Termination	Lead Length	Cable Material
PXPPVC05RAF03ACL010PVC	03	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05RAF03ACL010PUR	03	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05RAF03ACL020PVC	03	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05RAF03ACL020PUR	03	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05RAF03ACL030PVC	03	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05RAF03ACL030PUR	03	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05RAF03ACL050PVC	03	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05RAF03ACL050PUR	03	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05RAF03ACL100PVC	03	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05RAF03ACL100PUR	03	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05RAF03ACL150PVC	03	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05RAF03ACL150PUR	03	A	Overmold Cable	15 M Lead Length	PUR
PXPPVC05RAF04ACL010PVC	04	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05RAF04ACL010PUR	04	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05RAF04ACL020PVC	04	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05RAF04ACL020PUR	04	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05RAF04ACL030PVC	04	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05RAF04ACL030PUR	04	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05RAF04ACL050PVC	04	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05RAF04ACL050PUR	04	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05RAF04ACL100PVC	04	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05RAF04ACL100PUR	04	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05RAF04ACL150PVC	04	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05RAF04ACL150PUR	04	A	Overmold Cable	15 M Lead Length	PUR

M5 Right Angled Male



PXPTPU05RAM
PXPPVC05RAM

- Available in 3 and 4 poles
- 1,2,3,5,10 & 15M cable options
- Overmold Flex Inline Body
- Mates with Flex Body & panel mount connectors



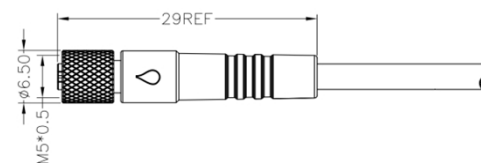
Part Number	Poles	Code	Termination	Lead Length	Cable Material
PXPPVC05RAM03ACL010PVC	03	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05RAM03ACL010PUR	03	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05RAM03ACL020PVC	03	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05RAM03ACL020PUR	03	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05RAM03ACL030PVC	03	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05RAM03ACL030PUR	03	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05RAM03ACL050PVC	03	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05RAM03ACL050PUR	03	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05RAM03ACL100PVC	03	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05RAM03ACL100PUR	03	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05RAM03ACL150PVC	03	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05RAM03ACL150PUR	03	A	Overmold Cable	15 M Lead Length	PUR
PXPPVC05RAM04ACL010PVC	04	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05RAM04ACL010PUR	04	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05RAM04ACL020PVC	04	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05RAM04ACL020PUR	04	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05RAM04ACL030PVC	04	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05RAM04ACL030PUR	04	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05RAM04ACL050PVC	04	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05RAM04ACL050PUR	04	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05RAM04ACL100PVC	04	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05RAM04ACL100PUR	04	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05RAM04ACL150PVC	04	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05RAM04ACL150PUR	04	A	Overmold Cable	15 M Lead Length	PUR

M5 Flex Body Female



PXPTPU05FBF
PXPPVC05FBF

- Available in 3 and 4 poles
- 1,2,3,5,10 & 15M cable options
- Overmold Flex Body
- Mates with Flex Inline Body & panel mount connectors



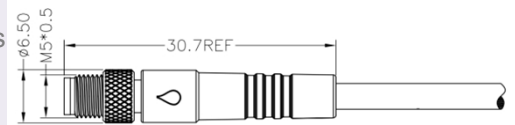
Part Number	Poles	Code	Termination	Lead Length	Cable Material
PXPPVC05FBF03ACL010PVC	03	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05FBF03ACL010PUR	03	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05FBF03ACL020PVC	03	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05FBF03ACL020PUR	03	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05FBF03ACL030PVC	03	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05FBF03ACL030PUR	03	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05FBF03ACL050PVC	03	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05FBF03ACL050PUR	03	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05FBF03ACL100PVC	03	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05FBF03ACL100PUR	03	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05FBF03ACL150PVC	03	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05FBF03ACL150PUR	03	A	Overmold Cable	15 M Lead Length	PUR
PXPPVC05FBF04ACL010PVC	04	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05FBF04ACL010PUR	04	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05FBF04ACL020PVC	04	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05FBF04ACL020PUR	04	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05FBF04ACL030PVC	04	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05FBF04ACL030PUR	04	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05FBF04ACL050PVC	04	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05FBF04ACL050PUR	04	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05FBF04ACL100PVC	04	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05FBF04ACL100PUR	04	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05FBF04ACL150PVC	04	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05FBF04ACL150PUR	04	A	Overmold Cable	15 M Lead Length	PUR

M5 Flex Inline Body Male



PXPTPU05FIM
PXPPVC05FIM

- Available in 3 and 4 poles
- 1,2,3,5,10 & 15M cable options
- Overmold Flex Inline Body
- Mates with Flex Body & panel mount connectors



Part Number	Poles	Code	Termination	Lead Length	Cable Material
PXPPVC05FIM03ACL010PVC	03	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05FIM03ACL010PUR	03	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05FIM03ACL020PVC	03	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05FIM03ACL020PUR	03	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05FIM03ACL030PVC	03	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05FIM03ACL030PUR	03	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05FIM03ACL050PVC	03	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05FIM03ACL050PUR	03	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05FIM03ACL100PVC	03	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05FIM03ACL100PUR	03	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05FIM03ACL150PVC	03	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05FIM03ACL150PUR	03	A	Overmold Cable	15 M Lead Length	PUR
PXPPVC05FIM04ACL010PVC	04	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05FIM04ACL010PUR	04	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05FIM04ACL020PVC	04	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05FIM04ACL020PUR	04	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05FIM04ACL030PVC	04	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05FIM04ACL030PUR	04	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05FIM04ACL050PVC	04	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05FIM04ACL050PUR	04	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05FIM04ACL100PVC	04	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05FIM04ACL100PUR	04	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05FIM04ACL150PVC	04	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05FIM04ACL150PUR	04	A	Overmold Cable	15 M Lead Length	PUR

Electrical:

No. Poles	3	4
Current Rating	1A	1A
Voltage Rating (ac/dc)	60V	60V
Contact Resistance	<10mΩ	
Insulation Resistance	>100MΩ	
AC Breakdown Voltage		
3 Pole	1.5KV	
4 Pole	1.5KV	
Operating Temp Range	-25°C to 80°C	

Mechanical:

Locking mechanism	Screw coupling
Sealing	IP67
Terminations:	
3 Pole	Single wire / PCB / Cable
4 Pole	Single wire / PCB / Cable
Mechanical Operation	500 mating cycles
Diameter over coupling ring	6.5mm

Materials:

Panel Mount

Body	Nickel Plated Brass
Coupling Nut	Nickel Plated Brass
Colour	Grey
Pin Contacts	Brass, Gold plating
Socket Contacts	Phosphor Bronze, Gold plating
O Rings & Gaskets	Viton
RoHS	Compliant

Cable Connectors

TPU / PVC
Nickel Plated Brass
Black
Brass, Gold plating
Phosphor Bronze, Gold plating
Viton
Compliant

MX	XXX	XX	XX	X	XX	X	XX	XXX	XXX
Series	Material	Series Size	Body Style	Orientation	No. Contacts	Code	Termination	Lead Length	Cable Material
PXM	BNI = Brass Nickel	05	FB = Flex Body	M	03	A	PC = PCB	001	PUR
PXP	TPU = overmold for PUR PVC = overmold for PVC		FI = Flex Inline Body FP = Front Panel Mounting RP = Rear Panel Mounting RA = Right Angle	F	04		FL = Flying Lead CL = Cable	002 003 010 020 030 050 100 150	PVC

Mouser Electronics

Authorized Distributor

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Bulgin:

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[PXMBNI05RPF03AFL003](#) [PXMBNI05FPM04APC](#) [PXMBNI05RPF04AFL002](#) [PXMBNI05RPM03APC](#)
[PXMBNI05RPM03AFL001](#) [PXMBNI05RPM04AFL002](#) [PXMBNI05FPM03AFL003](#) [PXMBNI05RPF04AFL003](#)
[PXMBNI05RPF03AFL002](#) [PXMBNI05FPM04AFL002](#) [PXMBNI05RPF04APC](#) [PXMBNI05RPM03AFL002](#)
[PXMBNI05RPM03AFL003](#) [PXMBNI05RPF03APC](#) [PXMBNI05FPM04AFL001](#) [PXMBNI05RPM04APC](#)
[PXMBNI05FPM03APC](#) [PXMBNI05FPM03AFL001](#) [PXMBNI05RPF04AFL001](#) [PXMBNI05RPF03AFL001](#)