

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 option s 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:

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



M5 Rear Panel Mounting Fema	lle	• PCB or flyi	n 3 and 4 poles ing lead termination I mounting M7 nut	
	PXMBNI05RPF	<ul> <li>Mates with connectors</li> </ul>	n Flex Inline Body S	M7*0.75-0.5
Part Number	Poles	Code	Termination	Lead Length
PXMBNI05RPF03AFL001	03	А	Flying Lead	100 mm Lead Length
PXMBNI05RPF03AFL002	03	А	Flying Lead	200 mm Lead Length
PXMBNI05RPF03AFL003	03	А	Flying Lead	300 mm Lead Length
PXMBNI05RPF04AFL001	04	А	Flying Lead	100 mm Lead Length
PXMBNI05RPF04AFL002	04	А	Flying Lead	200 mm Lead Length
PXMBNI05RPF04AFL003	04	А	Flying Lead	300 mm Lead Length
PXMBNI05RPF03APC	03	А	PCB Terminal	-
PXMBNI05RPF04APC	04	А	PCB Terminal	-

M5 Rear Panel Mounting Male	<ul> <li>Available in 3 and 4 poles</li> </ul>		
	• PCB or flying lead termination	3	-9.70
() Main	<ul> <li>Rear panel mounting M5 nut</li> </ul>		
	<ul> <li>Mates with Flex Body</li> </ul>	4 💛 1	- UU *0.50
PXMBNI05RPM	connectors		Ω W

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



M5 Front Panel Mounting Male		$\circ$ Available in	3 and 4 poles	بن ن ن ب ا ب ا ب
		• PCB or flyin	g lead termination	
		• Rear panel	mounting M5	
		o Mates with	Flex Body	4~~1
	PXMBNI05FPM	connectors		
Part Number	Poles	Code	Termination	Lead Length
PXMBNI05FPM03AFL001	03	А	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	А	Flying Lead	300 mm Lead Length
PXMBNI05FPM03APC	03	A	PCB Terminal	-
PXMBNI05FPM04APC	04	Α	PCB Terminal	-



M5 Right Angled Female		• Available	in 3 and 4 poles		
		<ul><li>○ 1,2,3,5,10</li></ul>	& 15M cable options		)
Contraction of the second seco		<ul> <li>Overmold</li> </ul>			0
			-	-17.30	
	PU05RAF		h Flex Inline Body &	V5*0.5	
PXPP	VC05RAF	panel mol	unt connectors	→ Ø6.50 →	
Part Number	Poles	Code	Termination	Lead Length	Cable Material
PXPPVC05RAF03ACL010PVC	03	А	Overmold Cable	1 M Lead Length	PVC
PXPTPU05RAF03ACL010PUR	03	А	Overmold Cable	1 M Lead Length	PUR
PXPPVC05RAF03ACL020PVC	03	А	Overmold Cable	2 M Lead Length	PVC
PXPTPU05RAF03ACL020PUR	03	А	Overmold Cable	2 M Lead Length	PUR
PXPPVC05RAF03ACL030PVC	03	А	Overmold Cable	3 M Lead Length	PVC
PXPTPU05RAF03ACL030PUR	03	А	Overmold Cable	3 M Lead Length	PUR
PXPPVC05RAF03ACL050PVC	03	А	Overmold Cable	5 M Lead Length	PVC
PXPTPU05RAF03ACL050PUR	03	А	Overmold Cable	5 M Lead Length	PUR
PXPPVC05RAF03ACL100PVC	03	А	Overmold Cable	10 M Lead Length	PVC
PXPTPU05RAF03ACL100PUR	03	А	Overmold Cable	10 M Lead Length	PUR
PXPPVC05RAF03ACL150PVC	03	А	Overmold Cable	15 M Lead Length	PVC
PXPTPU05RAF03ACL150PUR	03	А	Overmold Cable	15 M Lead Length	PUR
PXPPVC05RAF04ACL010PVC	04	А	Overmold Cable	1 M Lead Length	PVC
PXPTPU05RAF04ACL010PUR	04	А	Overmold Cable	1 M Lead Length	PUR
PXPPVC05RAF04ACL020PVC	04	А	Overmold Cable	2 M Lead Length	PVC
PXPTPU05RAF04ACL020PUR	04	А	Overmold Cable	2 M Lead Length	PUR
PXPPVC05RAF04ACL030PVC	04	А	Overmold Cable	3 M Lead Length	PVC
PXPTPU05RAF04ACL030PUR	04	А	Overmold Cable	3 M Lead Length	PUR
PXPPVC05RAF04ACL050PVC	04	А	Overmold Cable	5 M Lead Length	PVC
PXPTPU05RAF04ACL050PUR	04	А	Overmold Cable	5 M Lead Length	PUR
PXPPVC05RAF04ACL100PVC	04	А	Overmold Cable	10 M Lead Length	PVC
PXPTPU05RAF04ACL100PUR	04	А	Overmold Cable	10 M Lead Length	PUR
PXPPVC05RAF04ACL150PVC	04	А	Overmold Cable	15 M Lead Length	PVC
PXPTPU05RAF04ACL150PUR	04	А	Overmold Cable	15 M Lead Length	PUR



M5 Right Angled Male		$\circ \text{ Available}$	in 3 and 4 poles		
		• 1,2,3,5,10	& 15M cable options		}
		• Overmold	Flex Inline Body		
PXPTF	PU05RAM	• Mates wit	h Flex Body &		
		in a secol incore			
PXPP\	C05RAM	panel mol	unt connectors	Ø6.50	
		·		- <del>-</del> /ø6.501 <del>-</del> -	
PXPP\ Part Number	/C05RAM Poles	Code	Int connectors Termination	Lead Length	Cable Material
		·		- <del>-</del> /ø6.50 <del>1-</del> -	Cable Material PVC
Part Number	Poles	Code	Termination	Lead Length	

	00		Overmola Gable	T IN LOUG LONGIN	1 OIX
PXPPVC05RAM03ACL020PVC	03	А	Overmold Cable	2 M Lead Length	PVC
PXPTPU05RAM03ACL020PUR	03	А	Overmold Cable	2 M Lead Length	PUR
PXPPVC05RAM03ACL030PVC	03	А	Overmold Cable	3 M Lead Length	PVC
PXPTPU05RAM03ACL030PUR	03	А	Overmold Cable	3 M Lead Length	PUR
PXPPVC05RAM03ACL050PVC	03	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05RAM03ACL050PUR	03	А	Overmold Cable	5 M Lead Length	PUR
PXPPVC05RAM03ACL100PVC	03	А	Overmold Cable	10 M Lead Length	PVC
PXPTPU05RAM03ACL100PUR	03	А	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			le in 3 and 4 poles	29REF	
			10 & 15M cable options		
		• Overmo	old Flex Body		<b>•</b>
	PXPTPU05FB	F o Mates v	vith Flex Inline Body		
	PXPPVC05FB	SF & panel	mount connectors	2	
Part Number	Poles	code	Termination	Lead Length	Cable Material
PXPPVC05FBF03ACL010	OPVC 03	А	Overmold Cable	1 M Lead Length	PVC
PXPTPU05FBF03ACL010	PUR 03	А	Overmold Cable	1 M Lead Length	PUR
PXPPVC05FBF03ACL020	OPVC 03	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05FBF03ACL020	PUR 03	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05FBF03ACL030	OPVC 03	А	Overmold Cable	3 M Lead Length	PVC
PXPTPU05FBF03ACL030	PUR 03	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05FBF03ACL050	OPVC 03	А	Overmold Cable	5 M Lead Length	PVC
PXPTPU05FBF03ACL050	PUR 03	А	Overmold Cable	5 M Lead Length	PUR
PXPPVC05FBF03ACL100	OPVC 03	А	Overmold Cable	10 M Lead Length	PVC
PXPTPU05FBF03ACL100	PUR 03	А	Overmold Cable	10 M Lead Length	PUR
PXPPVC05FBF03ACL150	OPVC 03	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05FBF03ACL150	PUR 03	А	Overmold Cable	15 M Lead Length	PUR
PXPPVC05FBF04ACL010	OPVC 04	А	Overmold Cable	1 M Lead Length	PVC
PXPTPU05FBF04ACL010	PUR 04	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05FBF04ACL020	OPVC 04	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05FBF04ACL020	PUR 04	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05FBF04ACL030	OPVC 04	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05FBF04ACL030	PUR 04	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05FBF04ACL050	OPVC 04	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05FBF04ACL050	PUR 04	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05FBF04ACL100	OPVC 04	А	Overmold Cable	10 M Lead Length	PVC
PXPTPU05FBF04ACL100	PUR 04	А	Overmold Cable	10 M Lead Length	PUR
PXPPVC05FBF04ACL150	OPVC 04	А	Overmold Cable	15 M Lead Length	PVC
PXPTPU05FBF04ACL150	PUR 04	А	Overmold Cable	15 M Lead Length	PUR



M5 Flex Inline Body Male		<ul> <li>Available</li> </ul>	in 3 and 4 poles		
			& 15M cable options	0.0°. 9.0°. 9.0°. 9.0°. 9.0°. 30.7REF	
			Flex Inline Body		
			<u>,</u>		•
	PXPTPU05FIM		h Flex Body &		
	PXPPVC05FIM	panermou	unt connectors		
Part Number	Poles	Code	Termination	Lead Length	Cable Material
PXPPVC05FIM03ACL010F	PVC 03	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05FIM03ACL010F	PUR 03	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05FIM03ACL020F	PVC 03	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05FIM03ACL020F	PUR 03	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05FIM03ACL030F	PVC 03	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05FIM03ACL030F	PUR 03	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05FIM03ACL050F	PVC 03	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05FIM03ACL050F	PUR 03	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05FIM03ACL100F	PVC 03	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05FIM03ACL100F	PUR 03	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05FIM03ACL150F	PVC 03	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05FIM03ACL150F	PUR 03	A	Overmold Cable	15 M Lead Length	PUR
PXPPVC05FIM04ACL010F	PVC 04	A	Overmold Cable	1 M Lead Length	PVC
PXPTPU05FIM04ACL010F	PUR 04	A	Overmold Cable	1 M Lead Length	PUR
PXPPVC05FIM04ACL020F	PVC 04	A	Overmold Cable	2 M Lead Length	PVC
PXPTPU05FIM04ACL020F	PUR 04	A	Overmold Cable	2 M Lead Length	PUR
PXPPVC05FIM04ACL030F	PVC 04	A	Overmold Cable	3 M Lead Length	PVC
PXPTPU05FIM04ACL030F	PUR 04	A	Overmold Cable	3 M Lead Length	PUR
PXPPVC05FIM04ACL050F	PVC 04	A	Overmold Cable	5 M Lead Length	PVC
PXPTPU05FIM04ACL050F	PUR 04	A	Overmold Cable	5 M Lead Length	PUR
PXPPVC05FIM04ACL100F	PVC 04	A	Overmold Cable	10 M Lead Length	PVC
PXPTPU05FIM04ACL100F	PUR 04	A	Overmold Cable	10 M Lead Length	PUR
PXPPVC05FIM04ACL150F	PVC 04	A	Overmold Cable	15 M Lead Length	PVC
PXPTPU05FIM04ACL150F	PUR 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	2
Insulation Resistance	>100M	Ω
AC Breakdown Voltage		
3 Pole	1.5KV	
4 Pole	1.5KV	
Operating Temp Range	-25°C f	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	Cable Connectors
Body	Nickel Plated Brass	TPU / PVC
Coupling Nut	Nickel Plated Brass	Nickel Plated Brass
Colour	Grey	Black
Pin Contacts	Brass, Gold plating	Brass, Gold plating
Socket Contacts	Phosphor Bronze, Gold plating	Phosphor Bronze, Gold plating
O Rings & Gaskets	Viton	Viton
RoHS	Compliant	Compliant

MX	XXX	XX	XX	X	XX	Χ	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	М	03	А	PC = PCB	001	PUR
PXP	TPU = overmold for PUR		FI = Flex Inline Body	F	04		FL = Flying Lead	002	PVC
	PVC = overmold for PVC		FP = Front Panel Mounting				CL = Cable	003	
			RP = Rear Panel Mounting					010	
			RA = Right Angle					020	
								030	
								050	
								100	
								150	