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Title: M8x1/M12x1 insulation bodies/socket housings SMT/THR A-, B-, D-, P-, X-coded



Caption: M8x1/M12x1 insulation bodies/socket housings SMT/THR A-, B-, D-, P-, X-coded

Compact connection solutions are required for maximum flexibility in device development.

CONEC therefore offers a comprehensive range of connectors of various sizes and contact layouts for automatic production processes.

The advantages of THR and SMT assembly are that the connection technology can be integrated into the SMT process and thus the efficiency in device production in the electronics sector can be increased. Production costs of the devices can be reduced by the use of fully automatic equippable connection elements. While SMT technology is suitable for applications exposed to medium electromechanical loads, products with THR connection are particularly suitable when higher forces can act on electromechanical PCB components.

CONEC's first M12x1 SMT connector family was introduced in 2012. In addition to A- and B-coded 4-, 5- and 8-pos. variants in shielded and unshielded versions male and female, the portfolio also includes the X-coded female variant for high-speed data transmission up to 10 GBit/s in the industrial environment.

The continuous miniaturization of electronic assemblies led to CONEC developing a more compact M8x1 connector series for SMT and THR assembly in 2015.

The A- and B-coding for signal transmission have now been supplemented by D-coding for industrial Ethernet transmission (100 Mbps) and P-coding for the EtherCAT P transmission protocol. Thus, it is now possible to implement fast data transmissions into small devices via IP67 protected interfaces.

Currently, the following sizes, codings and numbers of positions are available:

...EVERYTHING FROM A SINGLE SOURCE																			
	Installation height	M8x1								M12x1									
Termination		SMT/THR																	
No. of poles		3-pos.		4-pos.				5-pos.		8-pos.		4-pos.		5-pos.		8-pos.			
Coding		A		A	D	P	B		A		A								X
		ST	KU	ST	KU	KU	KU	ST	KU	ST	KU	ST	KU	ST	KU	ST	KU	KU	
Front panel mounting	9 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	13 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	
Back panel mounting	6 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	
	10 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	

ST= Male/KU= Female

In case of publication we would appreciate a specimen copy, preferably as PDF file.

The insulating bodies meet the special requirements of the market, because they are:

- Two-piece (insulation-body and flange housing without fixed mechanical connection)
- Modular in construction
- Available in both SMT and THR technology
- Suitable for both front and back panel mounting
- Available for different installation heights

This allows the user, for example, to mount the flange housing from the front or rear of his device. Subsequently, the board equipped with the insulation-body can be mounted from the inside (combined assembly). In addition, the connectors are ideal for integrative designs where the M8 thread is shaped to the customer housing. This creates maximum design freedom.

By default, the protection class in mounted condition is IP67, the degree of protection of the mating-face in unmated condition is IP20.

<p>Benefits:</p> <ul style="list-style-type: none"> • Compact design • Flexibility in device connection • Maximum design freedom • Degree of protection IP67 	<p>Fields of application:</p> <ul style="list-style-type: none"> • Drive technology • Enclosure and device connection • Rotary encoder manufacturer • Sensors
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Product details:

No. of poles	M8x1				M12x1				
	3-pos.	4-pos.		5-pos.	8-pos.	4-pos.	5-pos.	8-pos.	8-pos.
Coding	A	A	D	P	B	A			X
Termination	SMT/THR				SMT			SMT/THR	
Mounting style	Front panel mounting & Back panel mounting				Front panel mounting				
Rated voltage	48V AC /60V DC			30V AC / 30V DC		250 V	60 V	30 V	48 V
Current rating	4 A @ 40°C				4 A		2 A	0,5 A	
Temperature range	-30°C ... +85°C				-25°C ... +95°C				
Mating cycles	>=100				>=100				
Degree of protection	IP67/IP20				IP67/IP20				

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