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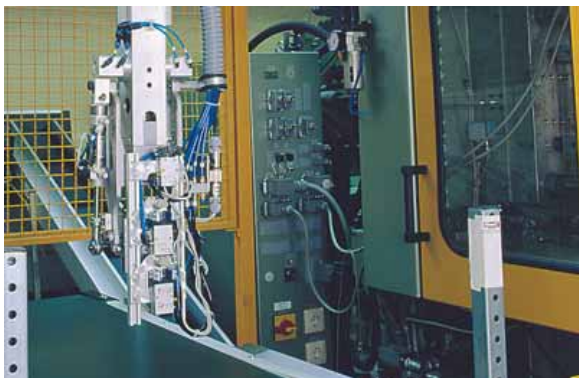
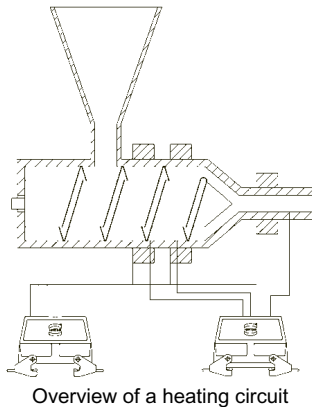
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Han[®] Thermocouple

Features

- Connector for temperature measurement conductors - Suitable for injection moulding machines
- Iron and constantan contacts according to DIN IEC 584 type J, screw and crimp terminals
- Mixed loading of thermocouple crimp contacts and standard contacts within one insert possible
- Thermocouple crimp contacts can be combined within Han-Modular[®]
- According to EUROMAP 14, Part 1

Application



Connector at an injection moulding machine

41
02

Technical characteristics

Specifications

DIN EN 60 664-1
DIN EN 61 984

Inserts

Electrical data acc. to EN 61 984	
- Han A [®]	16 A 250 V 4 kV 3
Rated current	16 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
- Han E [®]	16 A 500 V 6 kV 3
- Han [®] Q	16 A 230/400 V 4 kV 3
- Han D [®]	10 A 50 V 4 kV 3
- Han DD [®]	10 A 250 V 4 kV 3
Insulation resistance	≥ 10 ¹⁰ Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Mechanical working life	
- mating cycles	≥ 500
Flammability acc. to UL 94	V 0

Contacts

Material	constantan
Identification acc. to IEC 584	type J
Surface	not coated
Contact resistance	≤ 1 mΩ
Crimp terminal Han E [®]	0.14 ... 0.5 mm ² AWG 24 ... 20
Crimp terminal Han D [®]	0.14 ... 0.37 mm ² AWG 24 ... 22
Screw terminal	2.5 mm ² / AWG 14
- Tightening/test torque	0.5 Nm
Material	iron
Identification acc. to IEC 584	type J
Surface	gold
Contact resistance	≤ 1 mΩ
Crimp terminal Han E [®]	0.14 ... 0.5 mm ² AWG 24 ... 20
Crimp terminal Han D [®]	0.14 ... 0.37 mm ² AWG 24 ... 22
Screw terminal	2.5 mm ² / AWG 14
- Tightening/test torque	0.5 Nm

Hoods/Housings (see chapter 30 / 31)

Material Hoods/Housings	aluminium die-cast
Surface	powder-coated, grey
Locking	Stainless steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN 40 050	IP 65



Identification	Series	Part number		Contact arrangement view termination side	Dimensions in mm
		Male insert (M)	Female insert (F)		
Screw terminal	Han A®	16 A	09 20 016 2691	09 20 016 2891	
Screw terminal with wire protection	Han E®	10 E	09 33 010 2691	09 33 010 2791	
		16 E	09 33 016 2691	09 33 016 2791	
		24 E	09 33 024 2691	09 33 024 2791	
Screw terminal with wire protection	Han E®	24 E	09 33 024 2689	09 33 024 2789	

Han® Thermocouple

Identification	Series	Part number		Contact arrangement view termination side	Dimensions in mm	
		Male insert (M)	Female insert (F)			
Crimp terminal Order crimp contacts separately	Han E®					
	6 E	09 33 006 2602	09 33 006 2702			
	10 E	09 33 010 2602	09 33 010 2702			
	16 E	09 33 016 2602	09 33 016 2702			
	24 E	09 33 024 2602	09 33 024 2702			
Crimp terminal Order crimp contacts separately	Han® Q	09 12 005 3001	09 12 005 3101			
Crimp terminal Order crimp contacts separately	Han A®					
		10 A	09 20 010 3001			09 20 010 3101
		16 A	09 20 016 3001			09 20 016 3101

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm	
		Male contact	Female contact			
Crimp contacts Han E®	Constantan 	0.14-0.37	09 33 000 6163	09 33 000 6263		
		0.5	09 33 000 6162	09 33 000 6262		
		Iron; gold plated 	0.14-0.37	09 33 000 6173		09 33 000 6273
			0.5	09 33 000 6172		09 33 000 6272
			Standard contacts; silver plated 	0.5		09 33 000 6121
		0.75		09 33 000 6114		09 33 000 6214
	1	09 33 000 6105		09 33 000 6205		
		1.5	09 33 000 6104	09 33 000 6204		
		2.5	09 33 000 6102	09 33 000 6202		
		4	09 33 000 6107	09 33 000 6207		

Han® Thermocouple

Identification	Series	Part number		Contact arrangement view termination side	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	Han D®				
	8 D	09 36 008 3001	09 36 008 3101		
Crimp terminal Order crimp contacts separately	Han DD®				
	24 DD	09 16 024 3001	09 16 024 3101		
	42 DD	09 16 042 3001	09 16 042 3101		
	72 DD	09 16 072 3001	09 16 072 3101		
	108 DD	09 16 108 3001	09 16 108 3101		

Identification	Wire gauge (mm ²)	Part number		Drawing	Dimensions in mm
		Male contact	Female contact		
Crimp contacts Han D®					
	Constantan	0.14-0.37	09 15 000 6161		
	0.14-0.37	09 15 000 6171	09 15 000 6271		
	Standard contacts; silver plated	0.14-0.37	09 15 000 6104		
	0.5	09 15 000 6103	09 15 000 6203		
	0.75	09 15 000 6105	09 15 000 6205		
	1	09 15 000 6102	09 15 000 6202		
	1.5	09 15 000 6101	09 15 000 6201		
	2.5	09 15 000 6106	09 15 000 6206		