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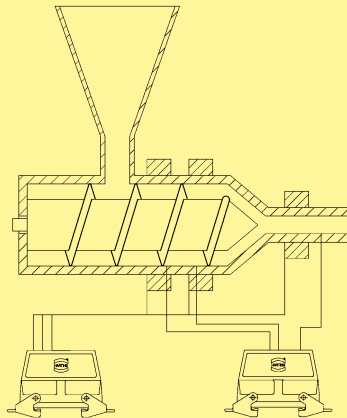
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Features

- 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



Overview of a heating circuit



Connector at an injection moulding machine

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 | <p>● Contacts FE ○ Contacts CuNi</p> | |
| Screw terminal with wire protection | Han E® 10 E 16 E 24 E | 09 33 010 2691 09 33 016 2691 09 33 024 2691 | 09 33 010 2791 09 33 016 2791 09 33 024 2791 | <p>● Contacts FE ○ Contacts CuNi</p> | |
| Screw terminal with wire protection | Han E® 24 E | 09 33 024 2689 | 09 33 024 2789 | <p>⊗ Standard contacts ● Contacts FE ○ Contacts CuNi</p> | |

Dimensions for inserts see chapter of corresponding series

Stock items in bold type

Thermo-
couple

| 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 (mm ²) | Part number | | Drawing | Dimensions in mm |
|--|----------------------------------|-----------------------|-----------------------|---------|------------------|
| | | Male contact | Female contact | | |
| Crimp contacts Han E® Constantan Iron; gold plated Standard contacts; silver plated | 0.14-0.37 | 09 33 000 6163 | 09 33 000 6263 | | |
| | | 0.5 | 09 33 000 6162 | | |
| | 0.14-0.37 | 09 33 000 6173 | 09 33 000 6273 | | |
| | | 0.5 | 09 33 000 6172 | | |
| | 0.5 | 09 33 000 6121 | 09 33 000 6220 | | |
| | 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 | | |

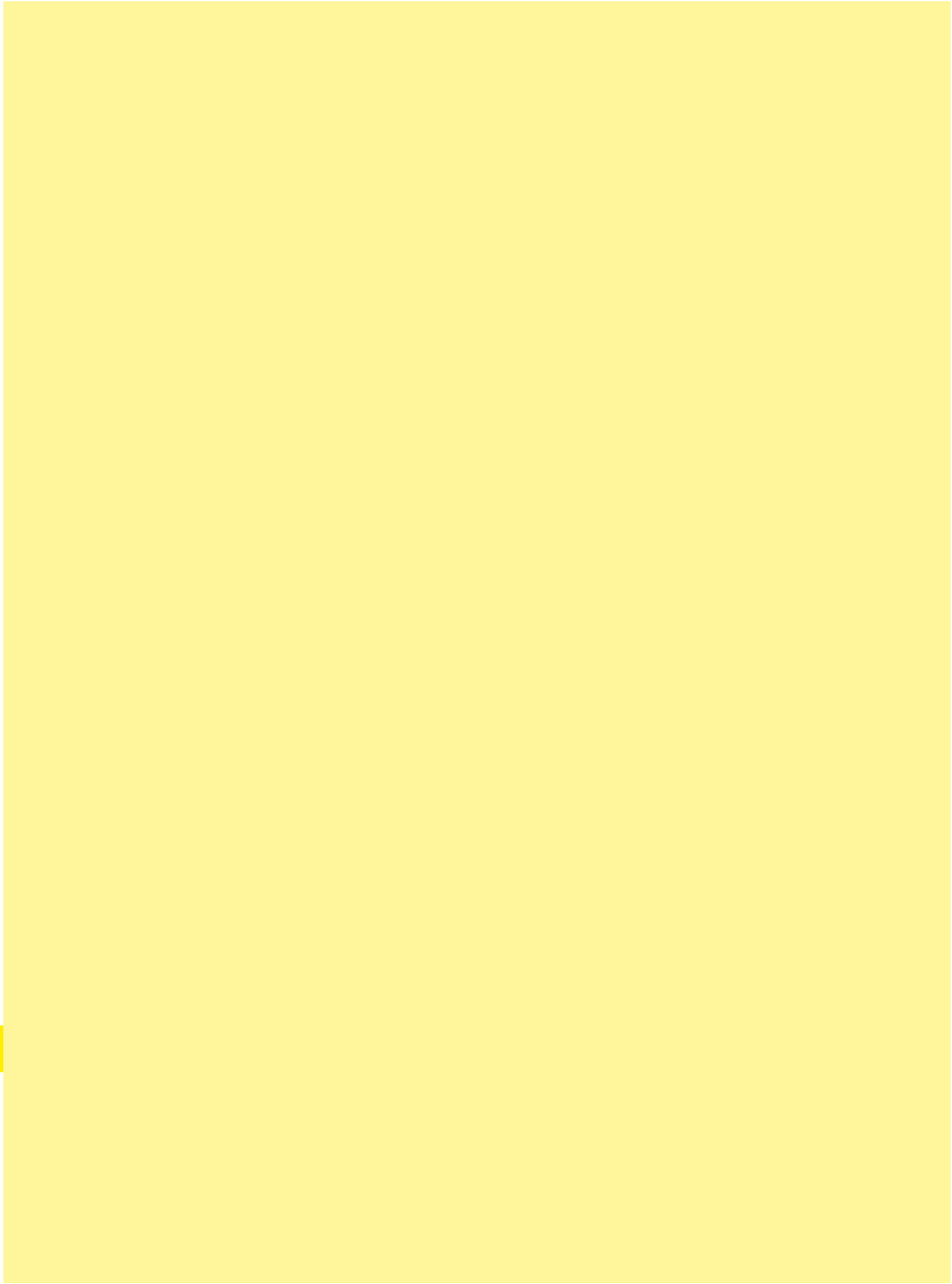
Thermo-
couple

| 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 42 DD 72 DD 108 DD | 09 16 024 3001 09 16 042 3001 09 16 072 3001 09 16 108 3001 | 09 16 024 3101 09 16 042 3101 09 16 072 3101 09 16 108 3101 | | |

| Identification | Wire gauge (mm²) | Part number | | Drawing | Dimensions in mm |
|--|-----------------------|-----------------------|-----------------------|---------|------------------|
| | | Male contact | Female contact | | |
| Crimp contacts Han D® Constantan | 0.14-0.37 | 09 15 000 6161 | 09 15 000 6261 | | |
| Iron; gold plated | | 09 15 000 6171 | 09 15 000 6271 | | |
| Standard contacts; silver plated | 0.14-0.37 | 09 15 000 6104 | 09 15 000 6204 | | |
| | 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 | | | |

Dimensions for inserts see chapter of corresponding series

Stock items in bold type



Thermo-
couple