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Control engineering

General safety precautions for electrical products

Operate the respective product only as described in the operating instruction.

Only authorized electricians are allowed to carry out any kind of maintenance work or technical service!

It is absolutely necessary to ground all moulds!

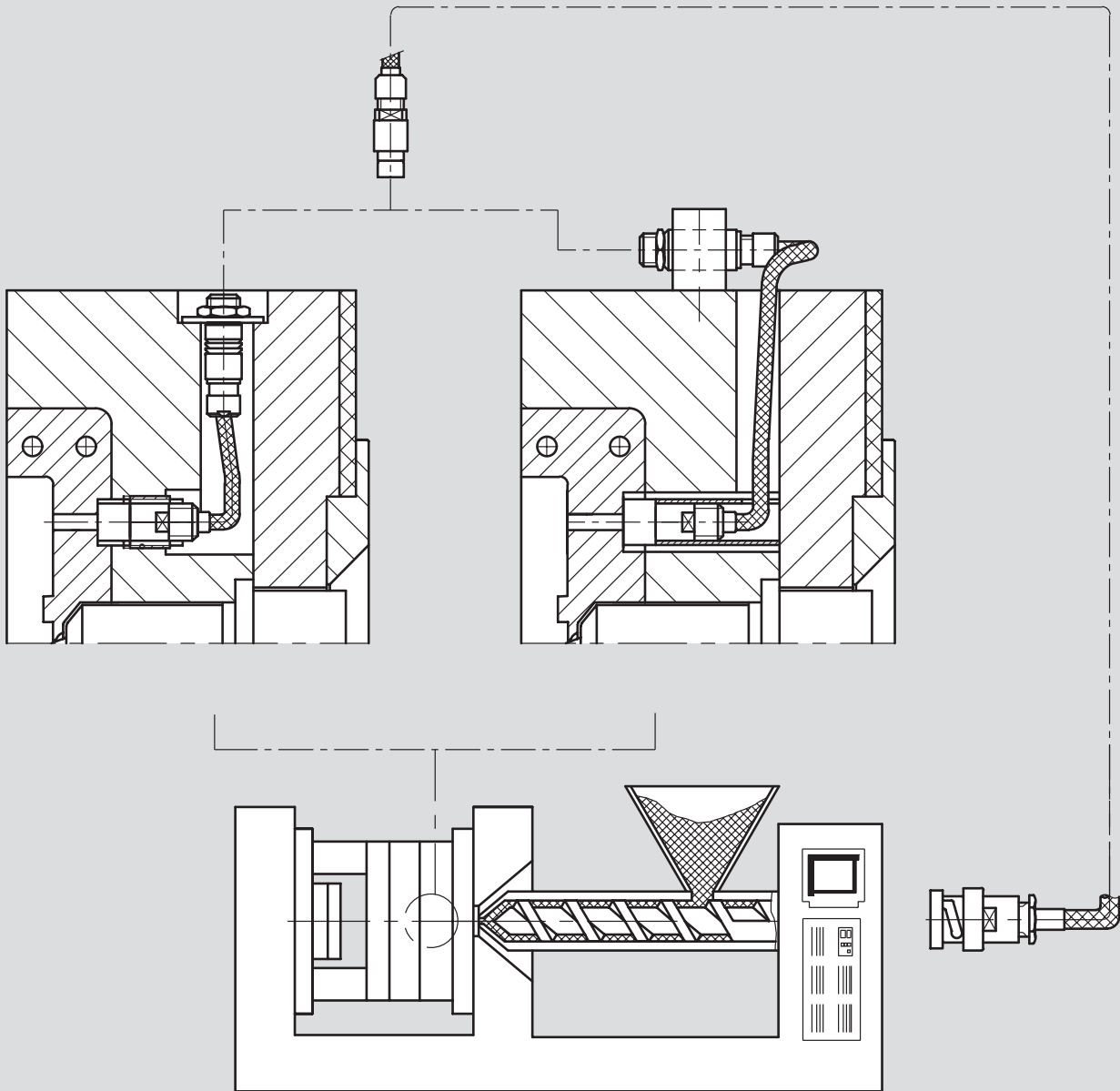


Cartridge heaters, Connecting power/signal cable, Microprocessor temperature control units, Thermocouples, Pressure- and temperature measuring devices

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Injection moulding machine with integrated piezo-pressure measuring system

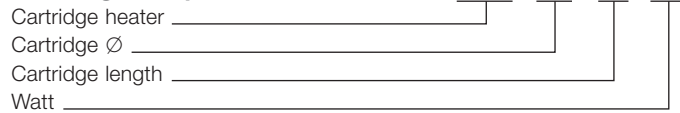


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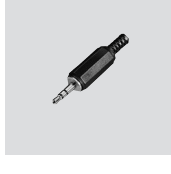






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Ordering example:

Z 110 / 6,5 x 40 / 125



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	Z 110/...* Cartridge heater cylindrical ≈ DIN 44921	4.1		Z 1167/... Protective earth line for grounding of moulds and Z 106/...; Z 10600/...	4.10		Z 1226/...* Power/signal adapter Conductor: Copper/ Fe-CuNi conforming to VDE 0100	4.16
	Z 111/...* Cartridge heater tapered with taper 1:50	4.6		Z 1168/... Compensating line for thermocouples Fe-CuNi suitable for Z 101 and Z 1295	4.11		Z 1227/...* Connection housing Pins: Brass/Fe-CuNi conforming to VDE 0100	4.17
	Z 1133/... Heater band used for heating up of sprue bushing Z 1055/...	4.7		Z 122/1/1/... Microprocessor control unit 1 control circuit 3600 W/16 A 3x230/400V~/50...60Hz	4.12		Z 1228/...* Connection housing Pins: Brass/Fe-CuNi conforming to VDE 0100	4.18
	Z 1134/... Heater band with integrated thermocouple, same application as Z 1055/...	4.7		Z 122/1/2/... Microprocessor control unit 2 control circuits 3600 W/16 A 3x230/400V~/50...60Hz	4.12		Z 1229/... Plug insert spare part for Z 1227/... and Z 1228/...	4.18
	Z 116/...* Assembly set contains pliers, cables and connectors for electrical installations	4.8		Z 122/1/4/... Microprocessor control unit 4 control circuits 3600 W/16 A 3x230/400V~/50...60Hz	4.13		Z 128/... Coupling multi-polar design 230 V/10 Amp.	4.19
	Z 1161/...* Extension cable for cartridge heaters and heated nozzles	4.8		Z 122/1/6/... Microprocessor control unit 6 control circuits 3600 W/16 A 3x230/400V~/50...60Hz	4.13		Z 1281/... Free connector DIN IEC 603-11	4.19
	Z 1162/...* Crimp type bracket DIN 46237 for electrical wiring	4.9		Z 122/1/9/... Microprocessor control unit 9 control circuits max. 21600 W/16 A 3x230/400V~/50...60Hz	4.14		Z 1295/1 Thermocouple Mat.: Fe-CuNi	4.20
	Z 1165/...* Butt joint DIN 46341-1 for extending of electrical cables	4.9		Z 1224/... Socket insert spare part for Z 1225/... and Z 1226/...	4.15		Z 1295/3 Thermocouple Mat.: Fe-CuNi	4.20
	Z 1166/...* Cable end sleeve DIN 46228-1 for electrical wiring	4.10		Z 1225/...* Power/signal cable Conductor: Copper/ Fe-CuNi plugs conform to VDE 0100	4.16		Z 1295/5 Thermocouple Mat.: Fe-CuNi	4.21




























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* = For technical details please refer to INFO-section
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	Z 1296/... 4.21 Coupling nipple used for Z 1295/3		Z 1382/...* 4.29 Connection cable for all pressure and force transducers max. 300°C		Z 1395/...* 4.34 Retaining plate Mat.: 3.4365 for Z 1381/... or Z 1382/...
	Z 1297/... 4.21 Fastening nipple used for Z 1295/5		Z 1383/...* 4.30 Connection cable for connecting of mould with Z 1384/1 and Z 1384/2		Z 1396/...* 4.35 Spacer tube Mat.: 1.7225 Installation aid for pressure transducer Z 1370/...
	Z 131/...* 4.22 Wiring box 250 V~ used for prewiring of hotrunner moulds		Z 1384/1* 4.30 Charge amplifier for conversion of signals for the machine control system		Z 1397/...* 4.35 Mounting nut Mat.: 1.7225 for securing pressure transducer Z 1370/...
	Z 1312/... 4.26 Thermal insul. sheet Mat.: Synthetic resin/ Glass fibre $\lambda = 0,13 \text{ W/mK}$ used for Z 131/...		Z 1385/2* 4.31 Data converter for recording measurements including software		Z 1398/...* 4.36 Tubular wrench Mat.: 1.7225 for mounting of nut Z 1397/...
	Z 1370/...* 4.27 Pressure transducer for direct measurement of the cavity pressure		Z 1387/...* 4.32 Connection cable for connecting of Z 1384/1 or Z 1384/2 with moulding machine		Z 1399/...* 4.36 Insertion tool Mat.: 1.7218 for fitting Z 1381/... with Z 1372/...
	Z 1371/...* 4.27 Measuring tongue Pressure transducer for indirect measurement of cavity pressure		Z 1391/...* 4.32 Dummy Mat.: 1.2312 installed if Z 1371/... is not used		Z 140/... 4.37 Limit switch for electronic mould-safety device
	Z 1372/...* 4.28 Miniature measuring tongue Pressure transducer for indirect measurement of cavity pressure		Z 1392/...* 4.33 Bracket Mat.: 1.1203 used with Z 1371/... and Z 1391/...		Z 1401/... 4.38 Connection cable with straight plug used for Z 140/... and Z 1471/...; Z 1473/...; Z 1475/...
	Z 1373/...* 4.28 Force transducer for indirect measurement of the cavity pressure		Z 1393/...* 4.33 Dummy Mat.: 1.2312 installed if Z 1372/... is not used		Z 1402/... 4.38 Connection cable with 90°-design plug used for Z 140/...; Z 1471/...; Z 1473/...; Z 1475/...
	Z 1381/...* 4.29 Connection cable for all pressure and force transducers max. 200°C		Z 1394/...* 4.34 Bracket Mat.: 3.4365 for mounting pipe Z 1399/...		Z 141/... 4.39 Tester for checking/adjusting of Z 140/...

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Z 145/...* 4.39
Infrared control unit
 230 V ~
 for Infrared-Safety Device



Z 1471/...* 4.44
Inductive proximity switch
 threaded max. 75°C



Z 2511/...* 4.49
Temperature feeler
 Mat.: NiCrNi
 used with Z 251/2



Z 1451/...* 4.40
Infrared transmitter
 90° design
 for Infrared-Safety Device



Z 1473/...* 4.44
Inductive proximity switch
 smooth max. 75°C



Z 2512/...* 4.49
Temperature feeler
 Mat.: NiCrNi
 used with Z 251/2



Z 1452/...* 4.40
Infrared receiver
 90° design
 for Infrared-Safety Device



Z 1475/...* 4.45
Inductive proximity switch
 square max. 75°C



Z 2515/...* 4.50
Temperature feeler
 Mat.: NiCrNi
 used with Z 251/2



Z 1453/...* 4.41
Infrared transmitter
 straight
 for Infrared-Safety Device



Z 240/...* 4.46
Pneumatic control unit
 for controlling of pneumatic operated fixtures



Z 252/...* 4.50
Pocket temperature measuring device
 with multi-purpose feeler
 Mat.: NiCrNi



Z 1454/...* 4.41
Infrared-receiver
 straight
 for Infrared-Safety Device



Z 2401/... 4.46
Rocker arm valve
 3/2 ways valve
 for pneumatic circuits



Z 1455/...* 4.42
Bracket
 Mat.: 3.4365
 for Z 1471/... or Z 1381/...



Z 2411/... 4.47
Lubro-control unit
 with pressure adjustment, water separator filter and lubricator



Z 1457/...* 4.42
Wiring box
 for Infrared-Safety Device



Z 2412/... 4.47
Lubro-control unit
 with pressure adjustment, and filter



Z 1458/...* 4.43
Connection cable
 for connecting of Z 145/... with Z 1457/...



Z 2416/... 4.48
Silencer
 spare part
 for Z 240/...



Z 1460/...* 4.43
Thermal insul. sheet
 Mat.: synthetic resin/
 Glass fibre
 $\lambda = 0,13 \text{ W/mK}$
 for Z 1457/...



Z 251/2* 4.48
Temperature measuring device ■
 Mat.: NiCrNi
 used for surface and immers. measurements

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