**M. K. JUCHHEIM GmbH & Co**

Delivery address: Mackenrodtstraße 14,
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
e-mail: mail@jumo.net
Internet: www.jumo.net

**JUMO Instrument Co. Ltd.**

JUMO House
Temple Bank, Riverway
Harlow, Essex CM 20 2TT, UK
Phone: +44 1279 635533
Fax: +44 1279 635262
e-mail: sales@jumo.co.uk
Internet: www.jumo.co.uk

**JUMO PROCESS CONTROL INC.**

885 Fox Chase, Suite 103
Coatesville PA 19320, USA
Phone: 610-380-8002
1-800-554-JUMO
Fax: 610-380-8009
e-mail: info@JumoUSA.com
Internet: www.JumoUSA.com



# Push-in thermocouples with compensating cable



- **for temperatures from 0 to 600°C**
- **available with different thermocouples**
- **with stainless steel protection tube**
- **silicone compensating cable or with metal braiding**
- **also with 90° cable entry**

Push-in thermocouples are preferred for measuring temperatures on solids, such as hot-plates and welding jaws. Applications include ovens, plant engineering and machinery.

Depending on the version, compensating cables are suitable for use in dry areas within the temperature range -20 to +350°C. The connection of the cable to the protection tube incorporates strain relief. A cable protector is available as an option.

Protection tubes in stainless steel protect the measuring insert from chemical influences and mechanical damage.

The measuring insert is fitted with thermocouples to EN 60 584 and DIN 43 710.

## Technical data

| | |
|---|---|
| **Connection** | available with cable ends as: bare wires, with ferrules, receptacle or multipole connector |
| **Compensating cable** | silicone, ambient temperature -50 to +180°C<br>metal braiding, ambient temperature -20 to +350°C<br>compensating cable available with shielding (option) |
| **Protection tube** | stainless steel 1.4571, 6mm dia. |
| **Measuring insert** | insulated assembly:<br>1 x Fe-Con L, DIN 43 710, Cl. 2, operating temperature -200 to +600°C<br>1 x NiCr-Ni K, EN 60 584, Cl. 2, operating temperature -200 to +600°C |
| **Accessories** | pocket, see Data Sheet 90.9721 |

**M. K. JUCHHEIM GmbH & Co**

Delivery address: Mackenrodtstraße 14,
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
e-mail: mail@jumo.net
Internet: www.jumo.net

**JUMO Instrument Co. Ltd.**

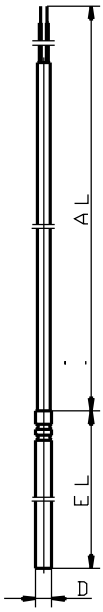
JUMO House
Temple Bank, Riverway
Harlow, Essex CM 20 2TT, UK
Phone: +44 1279 635533
Fax: +44 1279 635262
e-mail: sales@jumo.co.uk
Internet: www.jumo.co.uk

**JUMO PROCESS CONTROL INC.**

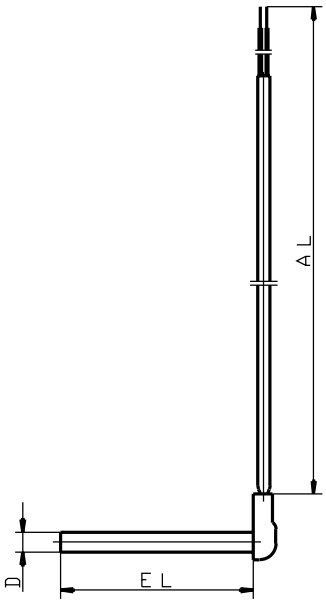
885 Fox Chase, Suite 103
Coatesville PA 19320, USA
Phone: 610-380-8002
1-800-554-JUMO
Fax: 610-380-8009
e-mail: info@JumoUSA.com
Internet: www.JumoUSA.com



## Dimensions




**Type 901105/10**




**Type 901105/20**

**M. K. JUCHHEIM GmbH & Co**
Delivery address: Mackenrodtstraße 14, 36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
e-mail: mail@jumo.net
Internet: www.jumo.net

**JUMO Instrument Co. Ltd.**
JUMO House
Temple Bank, Riverway
Harlow, Essex CM 20 2TT, UK
Phone: +44 1279 635533
Fax: +44 1279 635262
e-mail: sales@jumo.co.uk
Internet: www.jumo.co.uk

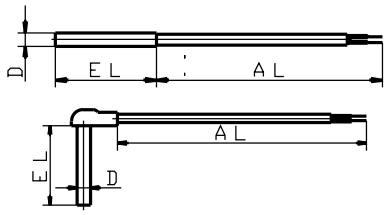
**JUMO PROCESS CONTROL INC.**
885 Fox Chase, Suite 103
Coatesville PA 19320, USA
Phone: 610-380-8002
1-800-554-JUMO
Fax: 610-380-8009
e-mail: info@JumoUSA.com
Internet: www.JumoUSA.com



## Order details: Push-in thermocouples with compensating cable

**(1) Basic version**

| | | | |
|---|---|---|---|
| | | 901105/10 | Push-in thermocouple with stainless steel protection tube |
| | | 901105/20 | Push-in thermocouple with stainless steel protection tube angled at 90° |




| | | | |
|---|---|---|---|
| | | | **(2) Operating temperature in °C / compensating cable** |
| x | x | 380 | -50 to +200°C / silicone |
| x | x | 390 | -50 to +300°C / metal braiding |
| | x | 840 | 0 to 300°C / metal braiding |
| | x | 843 | 0 to 350°C / metal braiding |
| x | | 848 | 0 to 400°C / metal braiding |
| x | | 858 | 0 to 600°C / metal braiding |
| | | | **(3) Measuring insert** |
| x | x | 1042 | 1 x Fe-Con L |
| x | x | 1043 | 1 x NiCr-Ni K |
| | | | **(4) Protection tube diameter D in mm** |
| x | x | 6 | 6mm |
| | | | **(5) Fitting length EL in mm (40≤ EL ≤500 for Type 901105/10)** |
| | x | 12 | 12mm |
| x | | 50 | 50mm |
| | x | 60 | 60mm |
| x | | 100 | 100mm |
| x | | 200 | 200mm |
| x | | 300 | 300mm |
| x | | ... | please specify in plain text (50mm steps) |
| | | | **(6) Compensating cable end** |
| x | x | 03 | bare cable ends |
| x | x | 11 | ferrules to DIN 46 228 Part 4 (standard) |
| x | x | 13 | receptacle 6.3 to DIN 46 247 |
| x | x | 80 | multipole connector (please specify type in plain text) |
| | | | **(7) Compensating cable length AL in mm (500≤ AL ≤500000)** |
| x | x | 2500 | 2500mm |
| x | x | ... | please specify in plain text (500mm steps) |
| | | | **(8) Extra codes** |
| x | x | 000 | no extra code |
| x | x | 309 | uninsulated assembly (thermocouple welded to tip) |
| x | x | 315 | cable protector: coil |
| x | | 316 | cable protector: tube |

| | (1) | | (2) | | (3) | | (4) | | (5) | | (6) | | (7) | | (8) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Order code** | | - | | - | | - | | - | | - | | - | | / | | ,... |
| **Order example** | 901105/10 | - | 848 | - | 1042 | - | 6 | - | 100 | - | 11 | - | 2500 | / | 000[1] | |

1.List extra codes in sequence, separated by commas.

## Stock versions:

| (1) | | (2) | | (3) | | (4) | | (5) | | (6) | | (7) | | (8) | Sales No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 901105/10 | - | 848 | - | 1042 | - | 6 | - | 50 | - | 11 | - | 2500 | / | 315 | 90/00055455 |
| 901105/10 | - | 858 | - | 1042 | - | 6 | - | 100 | - | 11 | - | 2500 | / | 315 | 90/00065812 |
| 901105/20 | - | 840 | - | 1042 | - | 6 | - | 60 | - | 11 | - | 2500 | / | 000 | 90/00055448 |