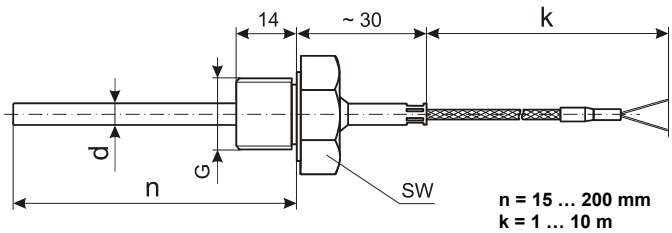
SCREW-IN CABLE PROBE **AGx(BTSAGx)**

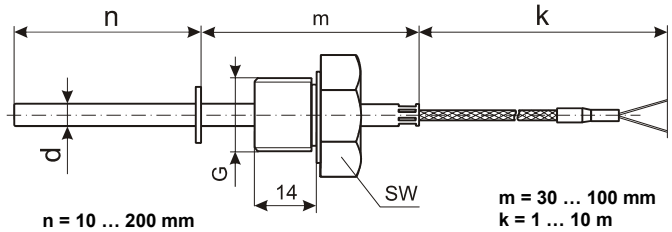
Sheath - stainless steel (see table notes)
Cable - see table notes

STRAIGHT DESIGN WITH WELDED CONNECTION (AG)



n = 15 … 200 mm
k = 1 … 10 m

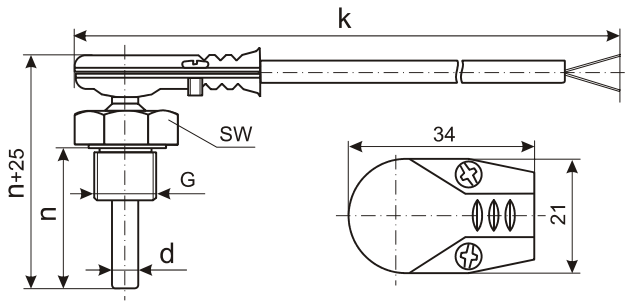
STRAIGHT DESIGN WITH MOVABLE CONNECTION (AG2)



n = 10 … 200 mm

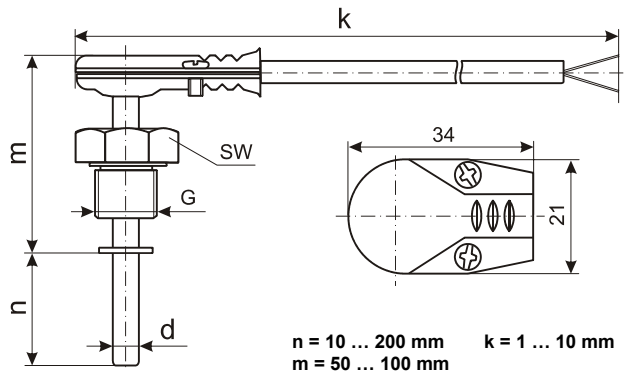
m = 30 … 100 mm
k = 1 … 10 m

ANGLED DESIGN WITH WELDED CONNECTION (AGL)



n = 15 … 200 mm k = 1 … 10 m

ANGLED DESIGN WITH MOVABLE CONNECTION (AGL2)



n = 10 … 200 mm k = 1 … 10 mm
m = 50 … 100 mm

SENSITIVE ELEMENT	CABLE TYPE	TEMPERATURE RANGE	DIMENSIONS d [mm]	DIMENSIONS wires
RTD Design				
1 x Pt (RB,RD,RF,RG)	SLSL, TSL, YY, UU, YU	T9 -50...200 °C	4, 5	2, 3*
		T1* -50...400 °C	6	2, 3, 4*
	GLGL, TT	*T7 0...200 °C*	8	2, 3, 4
2 x Pt (RB,RD,RF,RG)		*T8 0...400 °C*	6, 8	2x2, 2x3*
	TT	*T22 -200...200 °C*		
1 x Cu (RH, RK)	SLSL, TSL, YY, UU, YU	T9 -50...200 °C	5*	2, 3*
			6	2, 3, 4*
			8	2, 3, 4
2 x Cu (RH, RK)	*GLGL, TT*	*T7 0...200 °C*	6 ,8	2x2, 2x3*
1 x PTC (RP, RQ)	SLSL, TSL, YY, UU, YU	T12 -50...100 °C	6	2, 3
2 x PTC (RP, RQ)	*GLGL, TT*	*T19 0...100 °C*	8	2x2
Thermocouple Design				
1 x K, 1 x N, 1 x E	SLSL, TSL, YY, UU, YU	T9 -50...200 °C	5, 6, 8	2
		T1* -50...400 °C		
	GLGL, TT, SFSF	*T8 0...400 °C*		
		T4 0...800 °C		
		T3 0...850 °C*		
1 x J, 1 x T	SLSL, TSL, YY, UU, YU	T9 -50...200 °C	5, 6, 8	2
		T1* -50...400 °C		
	GLGL, TT, SFSF	*T8 0...400 °C*		
		T4 0...800 °C*		

Sheath material:
1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4404 (M9)

Cable type:
- GLGLP(V) (glass fiber w/ steel braid, max. 400 °C ambient temperature)
- SLSL or TSL (silicone, max. 250 °C ambient temperature)
- TT (Teflon®, max. 250 °C ambient temperature)
- YY (PVC, max. 100 °C ambient temperature)
- UU or YU (PUR, max. 80 °C ambient temperature)
- SFSF (mineral fiber, max. 1000 °C ambient temperature)

Applicable cables:

Probe design / Temp. range	AG, AG2	AGL, AGL2
T12, T19	all	all
T7, T9	no PUR, no PVC	
T22	TT	TT, SLSL, TSL
T1, T8	GLGLP, SFSF	no PUR, no PVC
T3, T4	SFSF	GLGLP, SFSF

Tip shape:
- RTD: standard, narrowed, pitted
- T/C: standard (isolated), grounded, open-tube, exposed

(see Appendix - Tip shapes)

Accuracy class:
- RTD: 'A', 'B', or '2xB'
- T/C: '1' or '2'

(see Appendix - RTD or T/C Tolerance)

Cable connector:
4-pin (C3), 'T/C standard' (C5) or 'T/C miniature' (C6)
(see Appendix - Connectors)

Available threads and HEX sizes:

G	M6	M8	M10 1/8"	M12 1/4"	M14	M16 3/8"	M18	M20 1/2"
SW	10	10	12(13)	14	17	19	22	24

* Please contact BASI!

Ordering code BTSAG(2,L,L2) - G1G2.G3.G4.G6.G7.G8.G9.G10.G11.G12.G14.G15 - #1

Code	Feature or option		Code values
G1	Number of sensors		**1** or **2**
G2	Sensor		**RB** - Pt50, **RD** - Pt100, **RF** - Pt500, **RG** - Pt1000, **RH** - Cu50, **RK** - Cu100, **RP** -PTC 1k, **RQ** - PTC 2k, **J** - T/C type "J", **K** - T/C type "K", **T** - T/C type "T"
G3	Temperature range		**T1** - -50…400 °C, **T3** - 0…850 °C [3], **T4** - 0…800 °C [3], **T7** - 0…200 °C, **T8** - 0…400 °C, **T9** - -50…200 °C, **T12** - 50…100 °C, **T19** - 0…100 °C, **T22** - -200…200 °C
G4	Diameter 'd' [mm]	RTD	**4**, **5**, **6**, **8**
		T/C	**5**, **6**, **8**
G6	Probe length 'n' [mm]		**10…200** (see tables overleaf)
G7	Probe length 'm' [mm] [1]		**30…100** (see tables overleaf)
G8	Cable length 'k' [m] and type		**1GL…10GL** - glass fiber, **1SL…10SL** - silicone, **1TF…10TF** - Teflon®, **1PU…10PU** - polyurethane [3], **1MF…10MF** - mineral fiber, **1PV…10PV** - PVC
G9	Mounting connection		**Q0** - M16x1.5, **Q1** - M18x1.5, **Q2** - M20x1.5, **Q3** - G3/8", **Q4** - G1/2", **Q7** - M12x1.5, **Q8** - M14x1.5, **Q10** - 1/2" NPT, **Q18** - G1/8", **Q19** - 1/8" NPT, **Q20** - M10x1, **Q23** - G1/4", **Q24** - 1/4" NPT, **Q26** - M8x1, **Q29** - M8x1.25, **Q30** - M10x1.5, **Q31** - M6x1, **Uxx** - union nut (xx - same as for Qxx)
G10	Sheath material (wetted parts)		**M1** - 1.4301, **M2** - 1.4541, **M3** - 1.4571, **M9** - 1.4404
G11	Accuracy class	RTD	**X** - none (for non Pt sensors), **A** - 'A', **B** - 'B', **C** - '2xB'
		T/C	**1** - '1' [3], **2** - '2'
G12	Number of wires [2]		**2**, **3**, **4** [3]
G14	Tip shape	RTD	**X** - standard closed, **N** - narrowed, **P** - pitted
		T/C	**X** - standard (isolated from sheath), **G** - grounded, **E** - exposed hot junction, **O** - open-tube design
G15	Connector		**X** - none, **C3** - 4-pin male plug-in connector ø8 (for H5700 thermometer only), **C5** - T/C connector, **C6** - miniature T/C connector
#1	Options		**X** - none, **OV** - vibration proof (MgO or Silicone filled), **OS** - cable protection SS spring (≈ 50 mm), **OB** - braid termination lead (only w/o connector), **OP** - electrochemically polished sheath surface

[1] Only for BTSAG2 and BTSAGL2!
[2] Only for RTD sensors!
[3] Contact BASI!