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Mineral-Insulated Thermocouples According to DIN 43710 and DIN EN 60584



- **For temperatures between -200 to +1200 °C**
- **Flexible sheath cable with vibration-resistant measuring insert**
- **Protection tube diameter as of 0.5 mm**
- **Quick response time**
- **Application-specific insertion length**

Due to their specific features, mineral-insulated thermocouples are used in chemical plants, power plants, pipelines, engine building, and test rigs. Inside the flexible and thin-walled sheathed cable, the thermowires are embedded in compressed and fire-resistant magnesium oxide.

The good thermal transfer between the sheath and the thermocouple enables short response times ($t_{0.5}$ as of 0.15 s) and excellent measuring accuracy. The vibration-resistant construction guarantees a long operating life. The smallest bending radius is 5 times the outer diameter. With a diameter of 0.5 to 2.0 mm, the minimum insertion length (EL) is ≥ 50 mm; with a diameter of 3.0 to 6.0 mm the EL is ≥ 100 mm.
The thermocouples are designed to be insulated from the sheath as standard. The measuring insert is equipped with thermocouples (elements) according to DIN EN 60584 and/or DIN 43710. Versions with two thermocouples are also possible.

Test pressure: check for leaks at the measuring point at 40 bar (helium).

Leakage resistance: thermocouple against sheath at room temperature and lengths < 1 m 200 MΩ, with lengths ≥ 1 m 200 MΩ × m.

Technical data

Terminal head	Form B, diecast aluminum, M20 × 1.5; IP65, ambient temperature -40 to +100 °C Form BUZ, diecast aluminum, M20 × 1.5; IP65, ambient temperature -40 to +100 °C Form J, diecast aluminum, M16 × 1.5; IP65, ambient temperature -40 to +100 °C Caution: reduced ambient temperature when using transmitters
Connection	Cable ends stripped bare; alternatively available with ferrules, plug-in sleeves, or multi-pole electrical connectors (e.g. thermal-voltage-free connector)
Compensating cable	Silicone, ambient temperature -50 to +180 °C PTFE, ambient temperature 190 to +260 °C Metal braiding, ambient temperature -20 to +350 °C
Process connection	Thread, stainless steel 1.4571
Protection tube	Stainless steel 1.4541, thermocouple type "L" and "J" Inconel 2.4816 (Inconel 600), thermocouple type "K" and "N"
Adapter sleeve (end closure)	As standard, the adapter sleeve (end closure) is designed up to 120 °C; it is available up to 300 °C upon request.
Measuring insert	Insulated construction: 1× Fe-CuNi "J", DIN EN 60584, class 2, operating temperature -200 to +800 °C 1× Fe-CuNi "L", DIN 43710, class 2, operating temperature -200 to +800 °C 1× NiCr-Ni "K", DIN EN 60584, class 2, operating temperature -200 to +1200 °C 1× NiCrSi-NiSi "N", DIN EN 60584, class 2, operating temperature -200 to +1200 °C 2× Fe-CuNi "L", DIN 43710, class 2, operating temperature -200 to +800 °C 2× NiCr-Ni "K", DIN EN 60584, class 2, operating temperature -200 to +1200 °C 2× NiCrSi-NiSi "N", DIN EN 60584, class 2, operating temperature -200 to +1200 °C
Response times	In water with 0.4 m/s / in air with 2 m/s Ø 0.5 mm: water $t_{0.5}$ = 0.15 s, $t_{0.9}$ = 0.30 s/air $t_{0.5}$ = 3.5 s, $t_{0.9}$ = 8.0 s Ø 1.0 mm: water $t_{0.5}$ = 0.20 s, $t_{0.9}$ = 0.60 s/air $t_{0.5}$ = 7.5 s, $t_{0.9}$ = 17.0 s Ø 1.5 mm: water $t_{0.5}$ = 0.40 s, $t_{0.9}$ = 0.90 s/air $t_{0.5}$ = 10.0 s, $t_{0.9}$ = 25.0 s Ø 2.0 mm: water $t_{0.5}$ = 0.80 s, $t_{0.9}$ = 2.60 s/air $t_{0.5}$ = 13.0 s, $t_{0.9}$ = 34.0 s Ø 3.0 mm: water $t_{0.5}$ = 1.00 s, $t_{0.9}$ = 2.80 s/air $t_{0.5}$ = 22.0 s, $t_{0.9}$ = 64.0 s Ø 4.5 mm: water $t_{0.5}$ = 2.50 s, $t_{0.9}$ = 6.50 s/air $t_{0.5}$ = 34.0 s, $t_{0.9}$ = 113.0 s Ø 6.0 mm: water $t_{0.5}$ = 3.00 s, $t_{0.9}$ = 9.00 s/air $t_{0.5}$ = 55.0 s, $t_{0.9}$ = 170.0 s
Transmitter	Programmable transmitter, 4 to 20 mA / 20 to 4 mA output, data sheet 707010 programmable transmitter, 4 to 20 mA / 20 to 4 mA and HART® interface output, data sheet 707010

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Lead wire resistance in Ω/m at 20 °C for mineral-insulated thermocouples

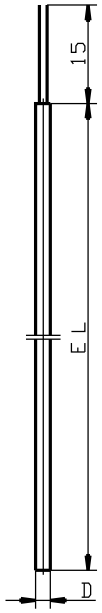
Diameter D in mm	1 element resistance in Ω/m	2 elements resistance in Ω/m
Thermocouple Fe-CuNi "L"		
6.0	0.66	0.85
4.5	1.40	1.80
3.0	2.70	3.50
2.0	5.00	-
1.5	12.00	-
1.0	21.50	-
Thermocouple Fe-CuNi "J"		
6.0	0.54	-
3.0	2.10	-
2.0	8.60	-
1.5	15.00	-
1.0	34.00	-
Thermocouple NiCr-Ni "K"		
6.0	0.88	2.70
4.5	1.56	4.80
3.0	3.50	11.00
2.0	7.90	25.00
1.5	14.00	-
1.0	32.00	-
0.5	126.00	-
Thermocouple NiCrSi-NiSi "N"		
6.0	1.81	1.68
3.0	5.98	7.00

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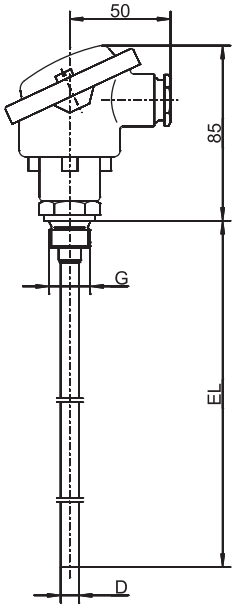
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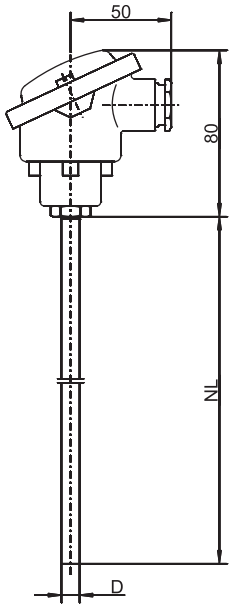
Dimensions



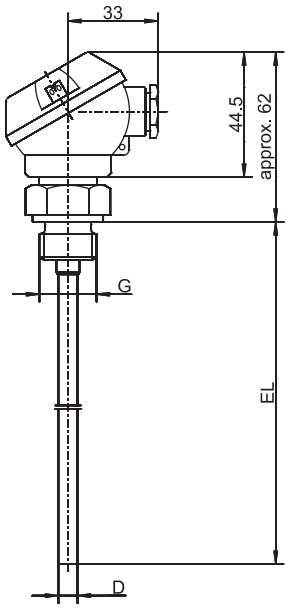
Basic type 901210/10



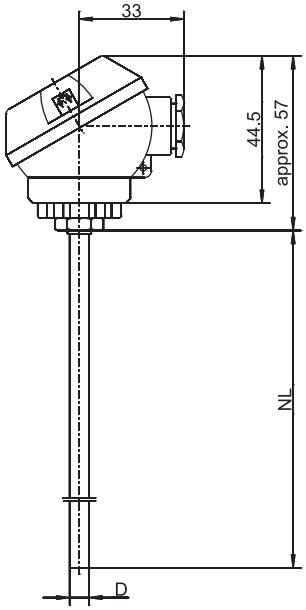
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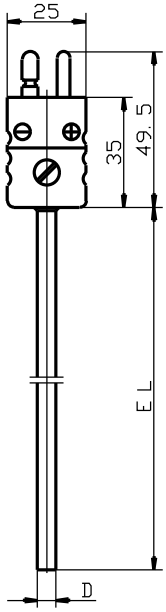
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Basic type 901230/40



Basic type 901230/41

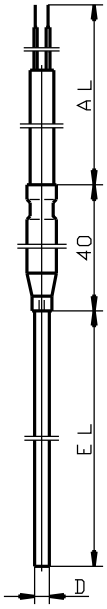


Basic type 901240/20

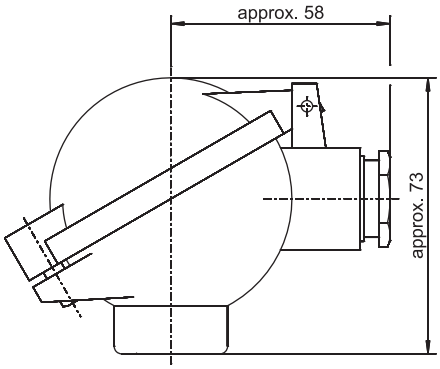
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Basic type 901250/3x



Terminal head form BUZ
extra code 320

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Order details: Mineral-insulated thermocouples according to DIN 43710 and DIN EN 60584

(1) Basic type

901210/10 — Mineral-insulated thermocouples with bare connection wires



901240/20 — Mineral-insulated thermocouple with thermal-voltage-free standard tab-connector



			(2) Measuring insert / operating temperature in °C
x	x	1040	1× Fe-CuNi "J", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	1042	1× Fe-CuNi "L", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	1043	1× NiCr-Ni "K", operating temperature -200 to +1200 °C, sheath material no. 2.4816
x		1048	1× NiCrSi-NiSi "N", operating temperature -200 to +1200 °C, sheath material no. 2.4816, D = 3 and 6 mm
x		2042	2× Fe-CuNi "L", operating temperature -200 to +800 °C, sheath material no. 1.4541
x		2043	2× NiCr-Ni "K", operating temperature -200 to +1200 °C, sheath material no. 2.4816
x		2048	2× NiCrSi-NiSi "N", operating temperature -200 to +1200 °C, sheath material 2.4816, D = 3 and 6 mm
			(3) Protection tube diameter D in mm
	x	0.5	Ø 0.5 mm, only in connection with measuring insert 1× NiCr-Ni "K"
x	x	1	Ø 1 mm
x	x	1.5	Ø 1.5 mm
x	x	2	Ø 2 mm
x	x	3	Ø 3 mm
x	x	4.5	Ø 4.5 mm
x	x	6	Ø 6 mm
			(4) Insertion length EL in mm (50 to 50000 mm)
x	x	100	100 mm
x	x	200	200 mm
x	x	300	300 mm
x	x	400	400 mm
x	x	500	500 mm
x	x	...	Please specify in plain text (50 mm steps)
			(5) Extra codes
x	x	000	Without
x	x	309	Uninsulated construction (element welded to the base)

	(1)		(2)		(3)		(4)		(5)
Order code		-		-		-		/	
Order example	901210/10	-	1042	-	3	-	200	/	000

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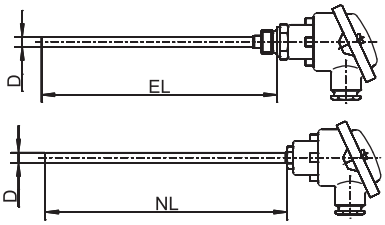
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Order details: Mineral-insulated thermocouples according to DIN 43710 and DIN EN 60584

(1) Basic type

		901220/40	Screw-in mineral-insulated thermocouple with terminal head, form B
		901220/41	Push-in mineral-insulated thermocouple with terminal head, form B



			(2) Measuring insert / operating temperature in °C
x	x	1040	1× Fe-CuNi "J", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	1042	1× Fe-CuNi "L", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	1043	1× NiCr-Ni "K", operating temperature -200 to +1200 °C, sheath material no. 2.4816
x	x	1048	1× NiCrSi-NiSi "N", operating temperature -200 to +1200 °C, sheath material no. 2.4816
x	x	2042	2× Fe-CuNi "L", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	2043	2× NiCr-Ni "K", operating temperature -200 to +1200 °C, sheath material no. 2.4816
x	x	2048	2× NiCrSi-NiSi "N", operating temperature -200 to +1200 °C, sheath material no. 2.4816
			(3) Protection tube diameter D in mm
x	x	3	Ø 3 mm
x	x	4.5	Ø 4.5 mm (not for measuring insert type "N")
x	x	6	Ø 6 mm
			(4) Insertion length EL/NL in mm (50 to 50000 mm)
x	x	100	100 mm
x	x	200	200 mm
x	x	300	300 mm
x	x	400	400 mm
x	x	500	500 mm
x	x	...	Please specify in plain text (50 mm steps)
			(5) Process connection
	x	000	Without
x		103	Screw connection G 3/8
x		104	Screw connection G 1/2
			(6) Extra codes
x	x	000	Without
x	x	309	Uninsulated construction (element welded to the base)
x	x	320	Terminal head form BUZ
x	x	331	1× programmable transmitter, 4 to 20 mA / 20 to 4 mA output, data sheet 707010
x	x	336	1× programmable transmitter, 4 to 20 mA / 20 to 4 mA and HART® interface output, data sheet 707010

	(1)		(2)		(3)		(4)		(5)		(6)	
Order code		-		-		-		-		/		, ...[a]
Order example	901220/40	-	1040	-	3	-	100	-	104	/	000	

[a] List extra codes in sequence, separated by commas.

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Accessories

Article	Part no.
Pipe screw connection M8 × 1 stainless steel, clamping ring stainless steel for protection tube diameter D = 3 mm	00080810
Pipe screw connection M8 × 1 stainless steel, clamping ring PTFE for protection tube diameter D = 3 mm	00049709
Pipe screw connection M8 × 1 steel, clamping ring PTFE for protection tube diameter D = 4.5 mm	00049704
Pipe screw connection M8 × 1 stainless steel, clamping ring PTFE for protection tube diameter D = 4.5 mm	00049710
Pipe screw connection M10 × 1 stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00065416
Pipe screw connection G 1/4 stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00080811
Pipe screw connection G 3/8 steel, clamping ring steel for protection tube diameter D = 6 mm	00057945
Pipe screw connection G 3/8 stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00317966
Pipe screw connection G 1/2 stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00305445
Pipe screw connection 1/2-14NPT stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00444210
Sheet steel flange for protection tube diameter D = 6 mm	00065042

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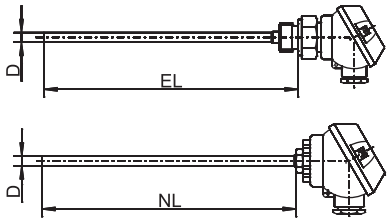
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Order details: Mineral-insulated thermocouples according to DIN 43710 and DIN EN 60584

(1) Basic type

		901230/40	Screw-in mineral-insulated thermocouple with terminal head, form J
		901230/41	Push-in mineral-insulated thermocouple with terminal head, form J



			(2) Measuring insert / operating temperature in °C
x	x	1040	1× Fe-CuNi "J", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	1042	1× Fe-CuNi "L", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	1043	1× NiCr-Ni "K", operating temperature -200 to +1200 °C, sheath material no. 2.4816
x	x	1048	1× NiCrSi-NiSi "N", operating temperature -200 to +1200 °C, sheath material no. 2.4816
x	x	2042	2× Fe-CuNi "L", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	2043	2× NiCr-Ni "K", operating temperature -200 to +1200 °C, sheath material no. 2.4816
x	x	2048	2× NiCrSi-NiSi "N", operating temperature -200 to +1200 °C, sheath material no. 2.4816
			(3) Protection tube diameter D in mm
x	x	3	Ø 3 mm
x	x	4.5	Ø 4.5 mm (not for measuring insert type "N")
x	x	6	Ø 6 mm
			(4) Insertion length EL/NL in mm (50 to 50000 mm)
x	x	100	100 mm
x	x	200	200 mm
x	x	300	300 mm
x	x	400	400 mm
x	x	500	500 mm
x	x	...	Please specify in plain text (50 mm steps)
			(5) Process connection
	x	000	Without
x		103	Screw connection G 3/8
x		104	Screw connection G 1/2
			(6) Extra codes
x	x	000	Without
x	x	309	Uninsulated construction (element welded to the base)

	(1)		(2)		(3)		(4)		(5)		(6)
Order code		-		-		-		-		/	
Order example	901230/40	-	1040	-	3	-	100	-	104	/	000

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Accessories

Article	Part no.
Pipe screw connection M8 × 1 stainless steel, clamping ring stainless steel for protection tube diameter D = 3 mm	00080810
Pipe screw connection M8 × 1 stainless steel, clamping ring PTFE for protection tube diameter D = 3 mm	00049709
Pipe screw connection M8 × 1 steel, clamping ring PTFE for protection tube diameter D = 4.5 mm	00049704
Pipe screw connection M8 × 1 stainless steel, clamping ring PTFE for protection tube diameter D = 4.5 mm	00049710
Pipe screw connection M10 × 1 stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00065416
Pipe screw connection G 1/4 stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00080811
Pipe screw connection G 3/8 steel, clamping ring steel for protection tube diameter D = 6 mm	00057945
Pipe screw connection G 3/8 stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00317966
Pipe screw connection G 1/2 stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00305445
Pipe screw connection 1/2-14NPT stainless steel, clamping ring stainless steel for protection tube diameter D = 6 mm	00444210
Sheet steel flange for protection tube diameter D = 6 mm	00065042

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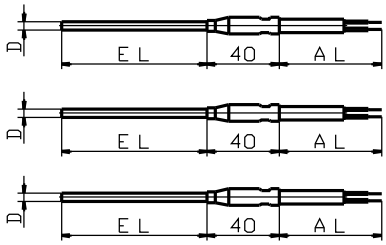
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Internet: www.jumousa.com

Order details: Mineral-insulated thermocouples according to DIN 43710 and DIN EN 60584

(1) Basic type

			901250/32	Mineral-insulated thermocouple with silicone-insulated compensating cable
			901250/33	Mineral-insulated thermocouple with PTFE-insulated compensating cable
			901250/34	Mineral-insulated thermocouple with compensation cable that is metal-braided and insulated with glass-fiber



				(2) Measuring insert / operating temperature in °C
x	x	x	1040	1× Fe-CuNi "J", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	x	1042	1× Fe-CuNi "L", operating temperature -200 to +800 °C, sheath material no. 1.4541
x	x	x	1043	1× NiCr-Ni "K", operating temperature -200 to +1200 °C, sheath material no. 2.4816
x		x	2042	2× Fe-CuNi "L", operating temperature -200 to +800 °C, sheath material no. 1.4541
x		x	2043	2× NiCr-Ni "K", operating temperature -200 to +1200 °C, sheath material no. 2.4816
				(3) Protection tube diameter D in mm
x	x	x	0.5	Ø 0.5 mm
x	x	x	1	Ø 1 mm
x	x	x	1.5	Ø 1.5 mm
x	x	x	2	Ø 2 mm
x	x	x	3	Ø 3 mm
x	x	x	4.5	Ø 4.5 mm
x	x	x	6	Ø 6 mm
				(4) Insertion length EL in mm (50 to 50000 mm)
x	x	x	100	100 mm
x	x	x	200	200 mm
x	x	x	300	300 mm
x	x	x	400	400 mm
x	x	x	500	500 mm
x	x	x	...	Please specify in plain text (50 mm steps)
				(5) Compensating cable end
x	x	x	11	Ferrules according to DIN 46228 part 4 (standard)
x	x	x	80	Multi-pole electrical connector (specify type in plain text)
				(6) Compensating cable length AL in mm (500 to 500000 mm)
x	x	x	2500	2500 mm (standard)
x	x	x	...	Please specify in plain text (500 mm steps)
				(7) Extra codes
x	x		000	Without
x	x		309	Uninsulated construction (element welded to the base)
x	x		317	Compensating cable shielded
	x	x	855	Adapter sleeve (end closure) 300 °C

	(1)		(2)		(3)		(4)		(5)		(6)		(7)	
Order code		-		-		-		-		-		/		, ...[a]
Order example	901250/32	-	1042	-	3	-	200	-	11	-	2500	/	000	

[a] List extra codes in sequence, separated by commas.

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Stock versions

(1)		(2)		(3)		(4)		(5)		(6)		(7)	Part no.
901250/32	-	1042	-	3	-	100	-	11	-	2500	/	000	00056809
901250/32	-	1042	-	3	-	200	-	11	-	2500	/	000	00068433
901250/32	-	1042	-	1.5	-	100	-	11	-	2500	/	000	00056811
901250/32	-	1042	-	1.5	-	200	-	11	-	2500	/	000	00068438
901250/32	-	1043	-	6	-	100	-	11	-	2500	/	000	00056812
901250/32	-	1043	-	6	-	200	-	11	-	2500	/	000	00068427
901250/32	-	1043	-	3	-	100	-	11	-	2500	/	000	00056813
901250/32	-	1043	-	3	-	200	-	11	-	2500	/	000	00068441
901250/32	-	1043	-	3	-	300	-	11	-	2500	/	000	00068442
901250/32	-	1043	-	3	-	500	-	11	-	2500	/	000	00068443
901250/32	-	1043	-	1.5	-	100	-	11	-	2500	/	000	00049205
901250/32	-	1043	-	1.5	-	200	-	11	-	2500	/	000	00068436
901250/32	-	1043	-	1.5	-	500	-	11	-	2500	/	000	00068437
901250/32	-	1043	-	0.5	-	100	-	11	-	2500	/	000	00066345

Stock versions

(1)		(2)		(3)		(4)		(5)		(6)	Part no.
901230/40	-	1043	-	6	-	200	-	104	/	000	00068430
901230/40	-	1043	-	6	-	300	-	104	/	000	00068431