



**Update 09/2016**  
Switching equipment



# Building HVAC components

Belparts is specialized in the development, production and marketing of components for the automation of HVAC-systems in buildings. We design field components that exactly match market needs. Throughout the development process, we ensure functionality, quality and reliability.

Belparts produces field components for all areas of HVAC, whether production, distribution, or terminal control of heating and cooling, as well as ventilation. Whatever the HVAC-application, we have it covered.

Our field components are designed to be smoothly integrated with any Building Management System (BMS), Direct Digital Controller (DDC), Programmable Logic Controller (PLC), and Supervisory Control and Data Acquisition (SCADA) system.

## A leading player for more than two decades

Belparts was established in 1987 by professionals from the HVAC-industry. Since then, we have developed a reputation for intelligent product design and reliable solutions. Our company has enjoyed a healthy success ever since its foundation.

## Market driven innovation

We constantly strive for product and system optimizations. Our engineers incorporate the latest proven technological developments into the design of new HVAC-components and understand how to combine high quality with product affordability.

## Shared competency and values

The Belparts staff shares a common passion for technology, product design, quality, and HVAC-applications. Each of our team members is both customer and results-oriented, and is trained to think 'innovation'. Integrity and responsibility are prerequisites for every employee.



### energetx



Belparts produces a broad range of components that save costs at every single point in your HVAC-system. By selecting the optimal component for each individual situation, considerable amounts of energy can be saved. Our **energetx**-range of products includes control valves, rotating valves, valve and air damper actuators, terminal control valves, and sensors.

### dynamx



Based on our revolutionary Dynamic Flow Networking (DFN) concept, our **dynamx**-valves adjust the flow of energy exactly to the desired conditions. This ensures that only the exact amount of energy is delivered at the right place and at the right time. The result is optimal comfort and reduced energy costs.

# energetx

## 9. Switching equipment



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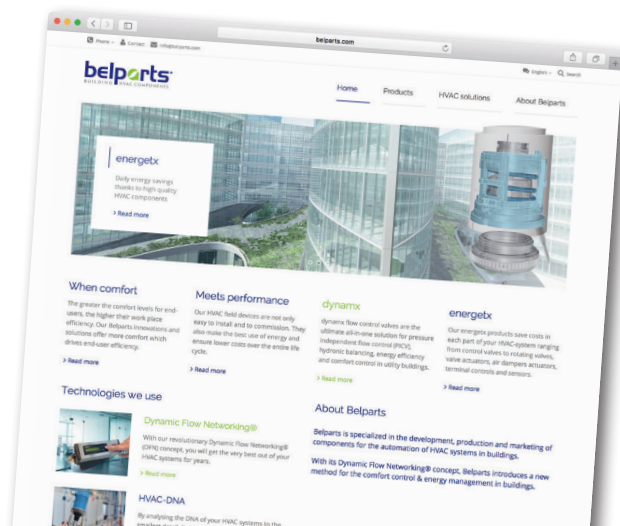


## Belparts online 24h/24h, 7/7







**Innovation, advice and tailored solutions:** that is what you expect your HVAC specialist to deliver. On top: top-notch quality, because at that level you do not want to make concessions. You are more than right. Because by choosing **field equipment of the highest quality**, you choose not only for **comfort** but also for **sustainable installations** and **profitable investments**.

For the most up-to-date technical specifications of our products, you can always consult our online product data sheets on our website: **www.belparts.com ▶ products**. Of course we can provide you with a printed version of our product data sheets on simple request.

**www.belparts.com**



## Overview

	SERIES	Description	Application	Air	Water		Range	Page
<b>Thermostats</b>								
	<b>ATR.83..</b>	Clamp-on thermostats	Pipe		•	T°	0°C..+90°C	<b>9</b>
	<b>WR.81..</b>	Clamp-on thermostats	Pipe		•	T°	0°C..+130°C	<b>9</b>
	<b>JAT..</b>	Clamp-on thermostats	Pipe		•	T°	-35°C..+100°C	<b>9</b>
	<b>KR.85..</b>	Immersion thermostats	Pipe		•	T°	0°C..+130°C	<b>7</b>
	<b>KR.80..</b>	Immersion thermostats	Pipe		•	T°	0°C..+130°C	<b>7</b>
	<b>JET.1..(X)</b>	Capillary thermostats	Room	•	•	T°	-35°C..+280°C	<b>10</b>
	<b>LR.80..</b>	Duct thermostats	Duct	•		T°	0°C..+130°C	<b>6</b>
	<b>JET.4../JET.R..</b>	Room thermostats	Room	•	•	T°	0°C..+35°C	<b>10</b>
<b>Safety thermostats</b>								
	<b>JTU</b>	With 1 contact	Aerothem	•		T°	+20°C..+100°C	<b>8</b>
	<b>JTL</b>	With 2 contacts	Aerothem	•		T°	+20°C..+70°C +70°C..+100°C	<b>8</b>
<b>Frost protection thermostats</b>								
	<b>JTF</b>	Frost protection thermostats	Duct	•		T°	-10°C..+12°C	<b>11</b>
<b>Flow-switch</b>								
	<b>JSL</b>	Flow-switch for air	Duct	•		v	1 m/s..9,2 m/s	<b>12</b>
	<b>JSF</b>	Flow-switch for water	Pipe		•	v	1".."8"	<b>12</b>
<b>Pressure switches</b>								
	<b>DP.604</b>	Pressure switches air	Duct	•		Δp	0,2..10 mbar	<b>13</b>
	<b>DP.02/03/05/10</b>	Pressure switches air	Duct	•		Δp	0,2..10 mbar	<b>13</b>
	<b>DP</b>	Pressure switches water	Pipe		•	Δp / p	20..1.000 kPa	<b>13</b>
<b>Hygrostats</b>								
	<b>HI</b>	Duct hygrostats	Duct	•		rH	30%..100% rH	<b>14</b>
	<b>PHY</b>	Room hygrostats	Room		•	rH	30%..100% rH	<b>14</b>
<b>Other</b>								<b>15</b>

## Duct thermostats

LR..80

- Capillary thermostat
- With 1 contact (potential free)
- Switching capacity: 15(8)A, AC 24-250 Volt
- IP43 (optional: IP54)
- TÜV tested (DIN 3440 until max. +95°C)



	TYPE	External SP	Internal SP	Range	Differential	Probe	TR	TW	TB	Price €/pc
	LR80.003-1	●		0..+35°C	1K	120mm	●			108,-
	LR80.108-1		●	0..+35°C	1K	120mm		●		94,-
	LR80.109-1		●	0..+35°C	1K	200mm		●		112,-
	LR80.027-5	●		0..+70°C	5K	100mm	●			112,-
	LR80.035-2	●		0..+70°C	2K	100mm	●			108,-
	LR80.028-2	●		0..+70°C	2K	200mm	●			112,-
	LR80.116-2		●	0..+70°C	2K	100mm		●		108,-
	LR80.029-2	●		0..+70°C	2K	280mm	●			113,-
	LR80.120-1		●	+10..+45°C	1K	200mm		●		112,-
	LR80.207		●	+60..+95°C	<sup>1)</sup>	100mm			●	119,-
LR80.203		●	+95..+130°C	<sup>1)</sup>	200mm			●	125,-	

<sup>1)</sup> external reset

▲ standard

TR temperature controller : automatic reset, adjustable setpoint (external)

TW temperature surveillance : automatic reset, adjustable setpoint (internal)

TB temperature limiter : manual external reset, adjustable setpoint (internal)


SP: setpoint

## Immersion thermostats

## KR80..

- Capillary thermostat
- With 1 contact (potential free)
- Switching capacity: 15(8)A, AC 24-250 Volt
- IP43 (optional: IP54)
- TÜV tested (DIN 3440 until max. +95°C)
- With immersion pocket nickel plated brass




	TYPE	External SP	Internal SP	Range	Differential	Immersion	TR	TW	TB	Price €/pc
	KR80.003-1	•		0..+35°C	1 K	120mm	•			108,-
	KR80.108-1		•	0..+35°C	1 K	120mm		•		84,-
	KR80.009-1N	•		+10..+45°C	1 K	200mm <sup>2)</sup>	•			148,-
	KR80.120-1		•	+10..+45°C	1 K	200mm		•		112,-
	KR80.000-5	•		+35..+95°C	5 K	100mm	•			108,-
	KR80.100-5		•	+35..+95°C	5 K	100mm		•		80,-
	KR80.100-5N		•	+35..+95°C	5 K	100mm <sup>2)</sup>		•		156,-
	KR80.124-5		•	+35..+95°C	5 K	280mm		•		113,-
	KR80.202		•	+95..+130°C	<sup>1)</sup>	100mm			•	121,-
	KR80.203		•	+95..+130°C	<sup>1)</sup>	200mm			•	126,-

## Double immersion thermostats

## KR85..

- Capillary thermostat
- With 1 contact (potential free)
- Switching capacity: 15(8)A, AC 24-250 Volt
- IP43 (optional: IP54)
- TÜV tested (DIN 3440 until max. +95°C)
- With immersion pocket nickel plated brass



	TYPE	External SP	Internal SP	Range/ switching off	Differential	Immersion	TR	TW	TB	Price €/pc
	KR85.406-2		•	0..+70°C	2K	100mm		•		160,-
				•	0..+70°C	2K			•	
	KR85.109-2	•		0..+70°C	2K	100mm	•			167,-
				•	0..+70°C	2K			•	
	KR85.100-5	•		+35..+95°C	3-5K, fixed	100mm	•			167,-
				•	+35..+95°C	3-5K, fixed			•	
	KR85.101-5	•		+35..+95°C	3-5K, fixed	200mm	•			173,-
				•	+35..+95°C	3-5K, fixed			•	
	KR85.400-5			•	+35..+95°C	3-5K, fixed	100mm		•	160,-
				•	+35..+95°C	3-5K, fixed			•	
	KR85.401-5			•	+35..+95°C	3-5K, fixed	200mm		•	173,-
				•	+35..+95°C	3-5K, fixed			•	
	KR85.102-5	•		•	+35..+95°C	3-5K, fixed	100mm	•		160,-
				•	+50..+130°C	8K			•	
	KR85.207-5	•			+35..+95°C	3-5K, fixed	200mm	•		183,-
				+85..+130°C					•	
KR85.230-5	•		•	+35..+95°C	3-5K, fixed	100mm	•		173,-	
				+95..+110°C						•
KR85.204-8	•			+50..+130°C	6-8K, fixed	100mm	•		179,-	
				+95..+130°C						•

<sup>1)</sup> external reset

<sup>2)</sup> stainless steel probe V4A (1.4571)

SP: setpoint

TR temperature controller : automatic reset, adjustable setpoint (external)

TW temperature surveillance : automatic reset, adjustable setpoint (internal)


TB temperature limiter : manual external reset, adjustable setpoint (internal)

## Duct thermostats with one switch over contact

JTU..

- Capillary thermostat
- With 1 contact (potential free)
- Switching capacity: 15(8)A, AC 24-250 Volt
- IP40 (optional: IP54)
- TÜV tested (DIN 3440)




	TYPE	Reset	Range	Capillary	Price €/pc
	JTU.3	external	+20..+100°C	350mm	165,-

## Air heater thermostats with two switch over contacts

JTL..

- Capillary thermostat 350mm
- With 2 contacts (potential free)
- Switching capacity: 15(8)A, AC 24-250 Volt
- IP40
- TÜV tested (DIN 3440)



	TYPE			Price €/pc									
	JTL.2			215,-									
			<table border="1"> <thead> <tr> <th></th> <th>Fan</th> <th>Burner</th> </tr> </thead> <tbody> <tr> <td>Control range</td> <td>+20..+70°C</td> <td>+70..+100°C</td> </tr> <tr> <td>Differential</td> <td>8..30 K</td> <td>8 K</td> </tr> </tbody> </table>		Fan	Burner	Control range	+20..+70°C	+70..+100°C	Differential	8..30 K	8 K	
	Fan	Burner											
Control range	+20..+70°C	+70..+100°C											
Differential	8..30 K	8 K											

▲ standard



## Clamp-on thermostats IP20

ATR..

- Capillary thermostat
- With 1 contact (potential free)
- Switching capacity: 16(2)A, AC 24-250 Volt
- IP20
- TÜV tested (DIN 3440)
- Differential 4K



	TYPE	Control range	Max. T°	External setpoint	Internal setpoint	TR	TW	TB	Price €/pc
	ATR83.001	0..+60°C	+80°C	●		●			42,-
	ATR83.101	0..+60°C	+80°C		●		●		42,-
	ATR83.000	+30..+90°C	+100°C	●		●			42,-
	ATR83.100	+30..+90°C	+100°C		●		●		41,-

## Clamp-on thermostats IP43

WR.81..

- Capillary thermostat
- With 1 contact (potential free)
- Switching capacity: 15(8)A, AC 24-250 Volt
- IP43
- TÜV tested (DIN 3440)
- Differential 4K



	TYPE	Control range	Max. T°	External setpoint	Internal setpoint	TR	TW	TB	Price €/pc
	WR81.115-5	0..+70°C	+85°C		●		●		146,-
	WR81.117-5	+50..+130°C	+150°C		●		●		146,-

## Clamp-on thermostats IP65

JAT..

- Capillary thermostat
- With 1 contact (potential free)
- Switching capacity: 15(8)A, AC 24-250 Volt
- IP65
- TÜV tested (DIN 3440)
- Differential adjustable 2..20 K



	TYPE	Control range	Max. T°	External setpoint	Internal setpoint	TR	TW	TB	Price €/pc
	JAT-110F	-35..+30°C	+45°C		●		●		175,-
	JAT-120F	0..+60°C	+75°C		●		●		175,-
	JAT-130F	+40..+100°C	+115°C		●		●		175,-

▲ standard

- TR temperature controller : automatic reset, adjustable setpoint (external)  
 TW temperature surveillance : automatic reset, adjustable setpoint (internal)  
 TB temperature limiter : manual external reset, adjustable setpoint (internal)


## Capillary thermostats • 1 or 2 changeover contacts

JET..


- Capillary thermostat
- TÜV tested (DIN 3440)
- With 1 contact (potential free)
- Differential adjustable 2..20K
- Switching capacity: 15(8)A, AC 24-250 Volt




### Capillary thermostats • integrated capillary • adjustable setpoint • 1 changeover contact • IP54

	TYPE	Control range	Differential	External setpoint	Internal setpoint	Price €/pc
	JET-40	0..+35°C	1K	●		123,-
	JET-40 F	0..+35°C	1K		●	82,-


### Capillary thermostats • integrated capillary • adjustable setpoint • 1 changeover contact • IP65

	TYPE	Control range	Differential	External setpoint	Internal setpoint	Price €/pc
	JET-110R	-35..+30°C	2..20K	●		143,-
	JET-110RF	-35..+30°C	2..20K		●	150,-
	JET-120R	0..+60°C	2..20K	●		143,-
	JET-120RF	0..+60°C	2..20K		●	150,-

### Capillary thermostats • extern capillary • 1 changeover contact • IP65

	TYPE	Control range	Differential	Bulb	Capillary	Price €/pc
	JET-110X	-35..+30°C	2..20K (TR)	9,6 x 122mm	1,80m	160,-
	JET-110XF	-35..+30°C	2..20K (TW)	9,6 x 122mm	1,80m	168,-
	JET-120X	0..+60°C	2..20K (TR)	9,6 x 122mm	1,80m	159,-
	JET-120XF	0..+60°C	2..20K (TW)	9,6 x 122mm	1,80m	168,-
	JET-130X	+40..+100°C	2..20K (TR)	9,6 x 122mm	1,80m	148,-
	JET-150	+100..+280°C	8..50K (TR)	6,0 x 80mm	1,80m	169,-

### Two-stage capillary thermostats • 2 changeover contacts • IP65

	TYPE	Control range 1	Control range 2	Differential		Price €/pc
	JET-30	+10..+45°C (TR)	0..+35°C (TW)	1K		165,-
	JET-31	+10..+45°C (TW)	0..+35°C (TW)	1K		161,-

## Accessories

	TYPE	Description	Price €/pc
	SW-200	Duct holder for JET/JTF - 200mm • Ø 11x17 • nickel plated steel • Ø 8mm	29,-
	TH-140	Immersion pocket for JET - 140mm • 10 x 12mm • nickel plated brass • 20bar max	31,-
	NTH-140	Immersion pocket for JET - 140mm • 10 x 12mm • stainless steel 1.4571 • 40bar max	71,-

TR temperature controller : automatic reset, adjustable setpoint (external)

TW temperature surveillance : automatic reset, adjustable setpoint (internal)


▲ standard

## Frost protection thermostats

JTF..

- Capillary thermostat
- With 1 contact (potential free)
- Switching capacity: 15(8)A, AC 24-250 Volt
- TÜV tested (DIN 3440)
- Differential adjustable 2..20 K
- Range: -10°C..+12°C



TYPE	Capillary	IP40	IP65	Extra functions	Manual reset	Price €/pc
 JTF-1	6m	●		1 stage	-	105,-
JTF-1/W	6m		●	1 stage	-	208,-
JTF-1/12	12m	●		1 stage	-	234,-
JTF-2	6m	●		1 stage, with external reset	●	127,-
JTF-2/12	12m	●		1 stage, with external reset	●	252,-
JTF-3	1,8m	●		1 stage, with bulb 9,5 x 76mm	-	125,-
JTF-3/W	1,8m		●	1 stage, with bulb 9,5 x 76mm	-	201,-
JTF-4	1,8m	●		1 stage, with bulb 9,5 x 76mm	●	141,-
JTF-5	3m	●		1 stage	-	101,-
JTF-6	3m	●		1 stage, with external reset	●	148,-
JTF-21	6m	●		2 stages thermostat <sup>1)</sup>	-	185,-
JTF-21/W	6m		●	2 stages thermostat <sup>1)</sup>	-	262,-
JTF-21/12	12m	●		2 stages thermostat <sup>1)</sup>	-	332,-
JTF-22	6m	●		2 stages thermostat <sup>1)</sup>	●	197,-
JTF-22/12	12m	●		2 stages thermostat <sup>1)</sup>	●	344,-
JTF-25	3m	●		2 stages thermostat <sup>1)</sup>	-	181,-

## Accessories

TYPE	Description	Price €/pc
 JZ05/6	Installation clips (6 pieces)	10,-

<sup>1)</sup> 1<sup>st</sup> stage gives a signal 5K before the setpoint


▲ standard


## Flow-switch

JS..

- Flow switch for air or water
- With 1 contact (potential free)
- Switching capacity: 15(8)A, AC 24-250 Volt



Duct flow-switch	TYPE	with 1 contact (potential free)	IP	Price €/pc		
	<b>JSL-1E</b>	switching capacity: 15(8)A @ 24-250Vac	IP65	<b>106,-</b>		
		differential $\geq$ 1m/s				
		maximum medium temperature: +85°C				
					<b>min</b>	<b>max</b>
		<b>switching on</b>			2m/s	9,2m/s
<b>switching off</b>	1m/s	8m/s				

Pipe flow-switch	TYPE	with 1 contact (potential free) TÜV tested (acc. 'Flow 100' up to 6")	IP	Price €/pc
	<b>JSF-1E</b>	switching capacity: 15(8)A @ 24-250Vac precision: $\pm$ 15% setpoint material body: brass maximum medium temperature: +120°C pipe Ø: 1..8" max. operating pressure: 8bar	IP65	<b>145,-</b>
	<b>JSF-2E</b>	switching capacity: 15(8)A @ 24-250Vac precision: $\pm$ 15% setpoint material body: V4A (stainless steel) maximum medium temperature: +120°C pipe Ø: 1..8" max. operating pressure: 13bar		

▲ standard

Other versions available on request.

## Pressure switches

DP..

- Differential pressure switches for air or water
- With 1 contact (potential free)
- Switching capacity 1/5A



Air	TYPE	Temperature	Range	IP	Differential	Contact	Price €/pc
			[mbar]		[mbar]		
	<b>DP.02</b>	-20..+60°C	0,2..2	54	≤ 0,5	5A @ 250Vac	<b>40,-</b>
	<b>DP.03</b>	-20..+60°C	0,3..3	54	≤ 0,5	5A @ 250Vac	<b>40,-</b>
	<b>DP.05</b>	-20..+60°C	0,5..5	54	≤ 0,6	5A @ 250Vac	<b>40,-</b>
	<b>DP.10</b>	-20..+60°C	1..10	54	≤ 0,8	5A @ 250Vac	<b>40,-</b>

Connection kit is included in the delivery (flexible 1x 2m, mounting bracket and 2pcs duct probe).

### Connection kit for DP.02/03/05/10

	Flexible tube Ø5/8mm, length 2m		1)
	Duct probe (plastic)		1)
	Mounting bracket		1)

Air	TYPE	Temperature	Range	IP	Differential	Contact	Price €/pc
			[mbar]		[mbar]		
	<b>DP604.90</b>	-20..+85°C	0,2..3	54	0,1..0,35	1 A @ 250Vac	<b>70,-</b>
	<b>DP604.91</b>	-20..+85°C	0,5..5	54	0,15..0,7	1 A @ 250Vac	<b>70,-</b>

Water	TYPE	Temperature	[kPa]	IP	[kPa]	Contact	Price €/pc
	<b>DP48</b>	-50..+50°C	-20..1000	54	100..450	pressure	<b>228,-</b>
	<b>DP48-L</b>	-50..+50°C	20..400	54	25..80	pressure	<b>228,-</b>

Water	TYPE	Temperature	[kPa]	IP	[kPa]	Contact	Price €/pc
	<b>DP735</b>	-50..+50°C	-20..1000	30	100..450	pressure	<b>144,-</b>
	<b>DP735-L</b>	-50..+50°C	-50..700	30	50..300	pressure	<b>144,-</b>

Water	TYPE	Temperature	[kPa]	IP	[kPa]	Contact	Price €/pc
	<b>DP74.2</b>	-30..+55°C	0..100	30	10 (fixed)	diff. pressure	<b>764,-</b>

1) price on request    ▲ standard    1mbar ≈ 100 Pa    1bar ≈ 100 kPa






## Hygrostats

HI..

- Control and monitoring of relative humidity
- 30..100% rH
- 1 or 2 changeover contacts
- $U_v$ : AC 24..250 Volt
- $U_v >$  AC 24 Volt environment only acc.VDE0110
- Precision  $\pm 3,5\%$  at 50% rH



Duct hygrostats	TYPE	Setpoint	Contact	Switching capacity	IP	Price €/pc	
	HI-1	external	1 stage	15(8)A @ 24-250Vac <sup>1)</sup>	65	<b>210,-</b>	
	HI-1F	internal	1 stage	15(8)A @ 24-250Vac <sup>1)</sup>	65	<b>201,-</b>	
	HI-2	external	2 stages <sup>2)</sup>	15(8)A @ 24-250Vac <sup>1)</sup>	65	<b>332,-</b>	
	JZ.20.1	accessories					<b>27,-</b>

Room hygrostats	TYPE	Setpoint	Changeover contact	Switching capacity	IP	Price €/pc
	PHY60082	external	dehumidify	5(0,2)A @ 24-250Vac <sup>3)</sup>	30	<b>115,-</b>
			humidify	2(0,2)A @ 24-250Vac <sup>3)</sup>		
			differential	ca. 4% rH		
			control range	30..100% rH		
		precision	ca. 3% rH (@ 50% rH)			

<sup>1)</sup> at AC 24 Volt: min. 150mA







<sup>2)</sup> difference between first and second stage adjustable 3..18% rH

<sup>3)</sup> at AC 24 Volt: min. 100mA

▲ standard



Others

Active relay	TYPE	U <sub>v</sub>	Input	Output	Price €/pc
	<b>VK10</b>	AC 24 Volt, 2 VA	U <sub>in</sub> : 0..10Vdc	SPDT 6A @ 50Vac	<b>79,-</b>
	switching point adjustable: 0..100% hysteresis adjustable: 0,5..5Vdc				
<b>Active relay</b> 	<b>RY-1U</b>	AC 24 Volt, 1 VA	U <sub>in</sub> : 0..10Vdc	SPDT 10A @ 230Vac	<b>39,-</b>
	<b>RY-V16U</b>	AC 24 Volt, 1 VA	U <sub>in</sub> : 0..10Vdc	SPDT 16 A @ 230Vac	<b>47,-</b>
	switching point adjustable: 0..100% hysteresis adjustable: 0,5..5Vdc				
<b>Fan-coil relay</b> 	<b>FCRY-3</b>	AC 24 Volt, 1 VA	U <sub>in</sub> : 0..10Vdc	3 x NO 10A @ 230Vac	<b>77,-</b>
	<b>FCRY-3-R</b>	AC 24 Volt, 1 VA	3..7 kOhm	3 x NO 10A @ 230Vac	<b>77,-</b>
	switching point adjustable: 7,5Vdc (factory setting) hysteresis adjustable: 0,2..1Vdc (factory setting)				
<b>Di convertor</b> 	<b>DA 6</b>	AC 24 Volt, 1 VA	1..6 Di	U <sub>out</sub> 1: 0..10Vdc	<b>140,-</b>
				U <sub>out</sub> 2: 4..20mA	
	Di: digital input (contact input, potential free)				
<b>Galvanic separation</b> <sup>1)</sup> 	<b>ISO 10</b>	AC 24 Volt, 1 VA	0..1Vdc	-	<b>161,-</b>
			0..10Vdc	0..10Vdc	
			2..10Vdc	2..10Vdc	
			0..20mA	0..20mA	
			4..20mA	4..20mA	
<b>Convertor 3P/0..10Vdc</b> <sup>2)</sup> 	<b>UMP 3</b>	AC 24 Volt, 1 VA	3-point signal	0..10Vdc	<b>130,-</b>
	<b>PMU 3</b>	AC 24 Volt, 1 VA	0..10Vdc	3-point signal	<b>150,-</b>

<sup>1)</sup> adjustable

<sup>2)</sup> timebase adjustable: 15..240 s

▲ standard