Electrical Settings

SERIES ARC300/ARC600
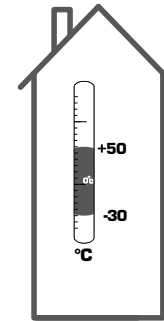
⏀ESBE®

NO.1 IN HYDRONIC SYSTEM CONTROL

⏀ESBE®

www.esbe.eu

Mtrl.nr. 9814 09 56 • Ritn.nr 8467 vers. B • Rev 1810

Series ARC300
Series ARC600

CE

LVD 2006/95/EC valid until April 19th 2016
LVD 2014/35/EU valid from April 20th 2016

EMC 2004/108/EC valid until April 19th 2016
EMC 2014/30/EU valid from April 20th 2016
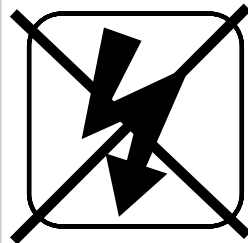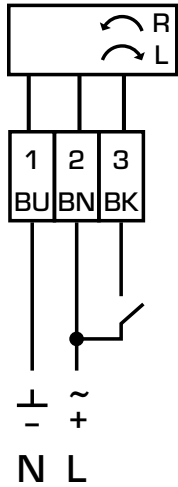
RoHS 2011/65/EU

+50

-30

°C

Series ARC300

Series ARC600

i

ARC300
Valve
Assembly

ARC300
Damper
Assembly

Valve Assembly

Damper Assembly

SERIES ARC300

SERIES ARC300

⏀ESBE

E
1

ARC361/ARC363/ARC661

E 2A

2-point

```
      ⌒R
      ⌒L

  1   2   3
  BU  BN  BK

  ⊥   ~
  −   +

  N   L
```

3-point

```
    ⌒⌒R
    ⌒⌒L

  1   2   3
  BU  BN  BK

  ⊥   ~
  −   +

  N   L
```
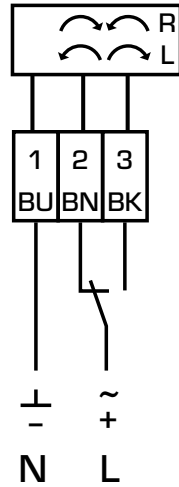
i
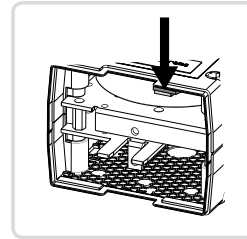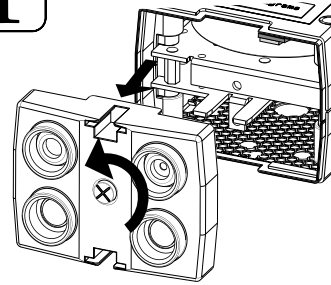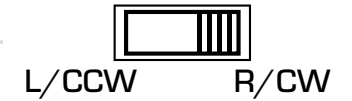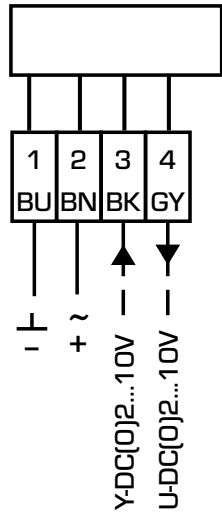
ARC361=85....265V AC/DC

ARC363=19....29V AC/DC

L/CCW   R/CW

R/CW=Clockwise working direction
L/CCW=Counter clockwise working direction

ARC368/ARC369/ARC669

E 2B
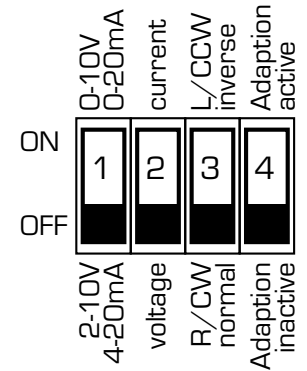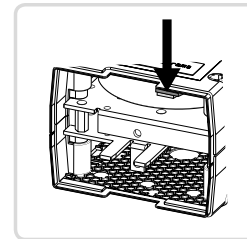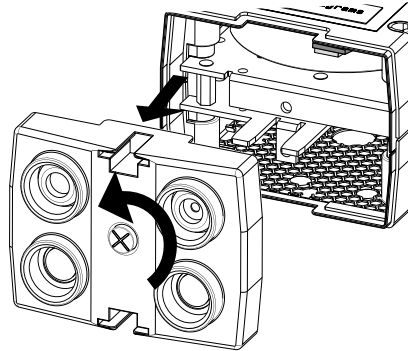
```
  1   2   3   4
  BU  BN  BK  GY
```

AC 19...29 V   ⊥   ~   ↑   ↓
DC 19...29 V   −   +

Y-DC(0)2...10V
U-DC(0)2...10V

i

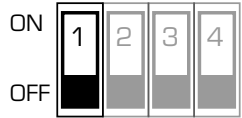|	ON			
	0-10V 0-20mA	current	L/CCW inverse	Adaption active
	1	2	3	4
OFF	2-10V 4-20mA	voltage	R/CW normal	Adaption inactive

R/CW=Clockwise working direction
L/CCW=Counter clockwise working direction

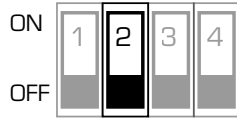# ARC368/ARC369/ARC669
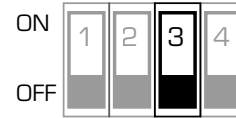
E 3

Y=0 - 10 V DC/0-20mA

U = 0-10 V DC

ON	1	2	3	4
OFF				

Y = 2 - 10 V DC/4-20mA

U = 2 -10 V DC

Current (mA)

ON	1	2	3	4
OFF				

Voltage (V DC)

L/CCW

ON	1	2	3	4
OFF				

R/CW

Adaption active

ON	1	2	3	4
OFF				

Adaption inactive

1   < 90°

2

3   SERIES ARC300   **V 9B** / **D 1B** + + **V 9C** / **D 1C**
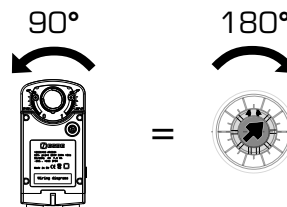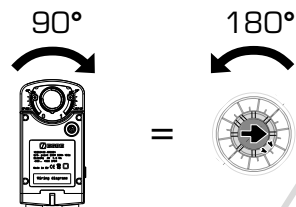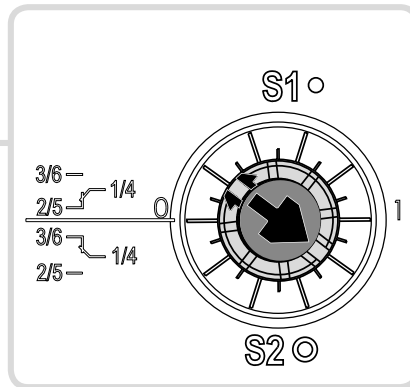
4

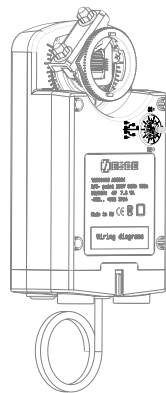5 | ON | 1 | 2 | 3 | 4 | ON | | OFF | | | | |

6

7 | ON | 1 | 2 | 3 | 4 | OFF | | OFF | | | | |

ARC368 Auxilary switch S1/S2

E 4a

S1		S2	
1	2	3	4	5	6
WH	WH	WH	WH	WH	WH

0...95°   0...95°

S1 ○

3/6 — 1/4
2/5 — 1/4 0
3/6 — 1/4
2/5 — 1/4 1

S2 ◎

90° = / 180° =   90° = / 180° =

S1

S2
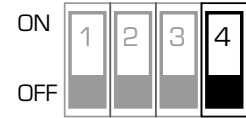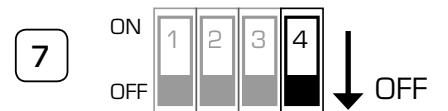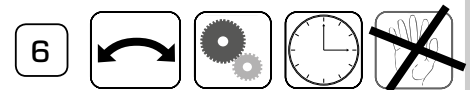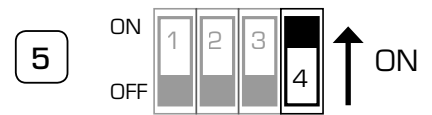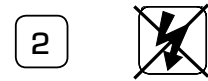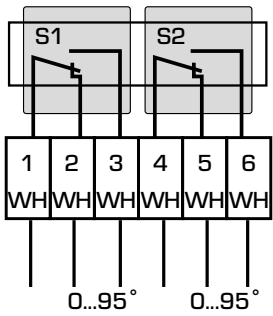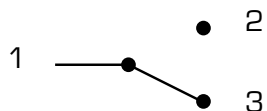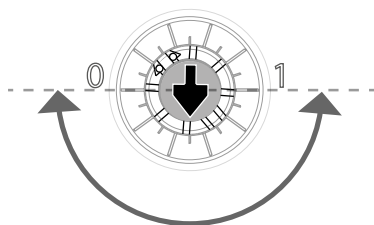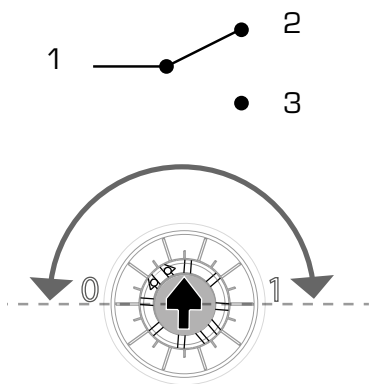
Example R/CW operation

E 4b

= 0° (Closed position)

| Ex. **S1** | 0° - 20° | 1 — 3 |
| | 20° - 90° | 1 — 2 |

| Ex. **S2** | 0° - 45° | 4 — 6 |
| | 45° - 90° | 4 — 5 |
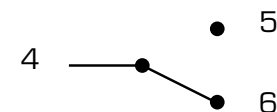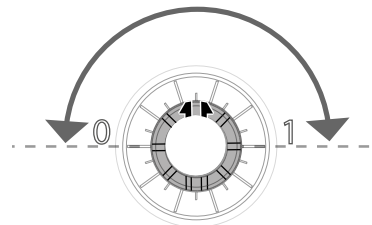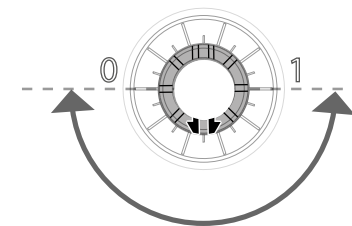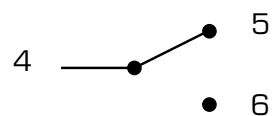
Example L/CCW operation

E 4c
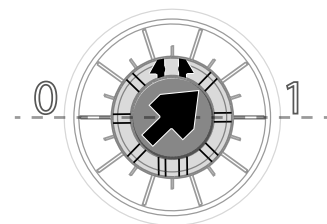
= 0° (Closed position)

| Ex. **S1** | 0° - 20° | 1 — 2 |
| | 20° - 90° | 1 — 3 |

| Ex. **S2** | 0° - 45° | 4 — 5 |
| | 45° - 90° | 4 — 6 |

All exampels are general representations