

Annex T1 - Summary of BZKS20 generator variants and their usage
(Annex T2 – List of the BZKS20 spare parts)

23. 01. 2009

| Design for: | | Board position: | | | | | | | |
|-----------------------|---|-----------------|--------------|--------------|----------------|---------------|--|--------|--|
| Standing on the shelf | Mounting in construction unit for electronics | ZI | | | N | | switches | | D Safe supervision cir. of oscillative buses Dst,st – 5 500 Dss,ss – 5 550 Dst,ss – 5 570 Dstn,ss In – 5 581 Dstn,stn In – 5 591 |
| | | ZI 5202 | ZIP 5 201 | ZIZ 5 202 | 230 V 5 100 | 24 V 5 150 | S1 st,sti (Sst) - 5 300 ss,ssi (Sss) - 5 401 Connecting board PD - 5 600 | S2 | |
| 5 001 – BZKS20-1.1S | 5 031 – BZKS20-2.1S | X | | | X | | st,sti | ss,ssi | – |
| 5 002 – BZKS20-1.2S | 5 032 – BZKS20-2.2S | X | | | X | | st,sti | st,sti | – |
| 5 003 – BZKS20-1.3S | 5 033 – BZKS20-2.3S | X | | | X | | ss,ssi | ss,ssi | – |
| 5 004 – BZKS20-1.4S | 5 034 – BZKS20-2.4S | X | | | X | | st,sti | PD | – |
| 5 005 – BZKS20-1.5S | 5 035 – BZKS20-2.5S | X | | | X | | ss,ssi | PD | – |
| 5 006 - BZKS20-1.6S | 5 36 - BZKS20-2.6S | X | | | X | | st,sti | ss,ssi | Dst, ss |
| 5 007 - BZKS20-1.7S | Ds37 - BZKS20-2.7S | X | | | X | | st,sti | st,sti | Dst,st |
| 5 008 - BZKS20-1.8S | 5 038 - BZKS20-2.8S | X | | | X | | ss,ssi | ss,ssi | Dss,ss |
| 5 009 - BZKS20-1.9S | 5 039 - BZKS20-2.9S | X | | | X | | st,sti | PD | Dst,st |
| 5 010 - BZKS20-1.0S | 5 040 - BZKS20-2.0S | X | | | X | | ss,ssi | PD | Dss,ss |
| 5 011 – BZKS20-1.1B | 5 041 – BZKS20-2.1B | X | | | | X | st,sti | ss,ssi | – |
| 5 012 – BZKS20-1.2B | 5 042 – BZKS20-2.2B | X | | | | X | st,sti | st,sti | – |
| 5 013 – BZKS20-1.3B | 5 043 – BZKS20-2.3B | X | | | | X | ss,ssi | ss,ssi | – |
| 5 014 – BZKS20-1.4B | 5 044 – BZKS20-2.4B | X | | | | X | st,sti | PD | – |
| 5 015 – BZKS20-1.5B | 5 045 – BZKS20-2.5B | X | | | | X | ss,ssi | PD | – |
| 5 016 - BZKS20-1.6B | 5 046 – BZKS20-2.6B | X | | | | X | st,sti | ss,ssi | Dst,ss |
| 5 017 - BZKS20-1.7B | 5 047 – BZKS20-2.7B | X | | | | X | st,sti | st,sti | Dst,st |
| 5 018 - 0BZKS20-1.8B | 5 048 – BZKS20-2.8B | X | | | | X | ss,ssi | ss,ssi | D _{ss,ss} |
| 5 019 - BZKS20-1.9B | 5 049 – BZKS20-2.9B | X | | | | X | st,sti | PD | Dst,st |
| 5 020 - BZKS20-1.0B | 5 050 – BZKS20-2.0B | X | | | | X | ss,ssi | PD | Dss,ss |
| 5 021 – BZKS20-3.1S | 5 051 – BZKS20-4.1S | | | X | X | | st,sti | ss,ssi | Dstn.stn In + 5 759 (5 755) |
| 5 022 – BZKS20-3.2S | 5 052 – BZKS20-4.2S | | | X | X | | st,sti | PD | Dstn.stn In + 5 759 (5 755) |
| 5 023 – BZKS20-3.3S | 5 053 – BZKS20-4.3S | | | X | X | | st,sti | st,sti | Dstn.stn In + 5 755 |
| 5 024 – BZKS20-3.4S | 5 054 – BZKS20-4.4S | | X | | X | | st,sti | st,sti | Dstn.stn In + 5 757 |
| 5 025 – BZKS20-3.5S | 5 055 – BZKS20-4.5S | | X | | X | | ss,ssi | ss,ssi | Dss,ss |
| 5 026 - BZKS20-3.1B | 5 056 – BZKS20-4.1B | | | X | | X | st,sti | ss,ssi | Dstn.stn In + 5 759 (5 755) |
| 5 027 - BZKS20-3.2B | 5 057 - BZKS20-4.2B | | | X | | X | st,sti | PD | Dstn.stn In + 5 759 (5 755) |
| 5 028 - BZKS20-3.3B | 5 058 - BZKS20-4.3B | | | X | | X | st,sti | st,sti | Dstn.stn In + 5 755 |
| 5 029 - BZKS20-3.4B | 5 059 - BZKS20-4.4B | | X | | | X | st,sti | st,sti | Dstn.stn In + 5 757 |

| | | | | | | | | | |
|----------------------|----------------------|-------------|---|---|---|---|-------------------------------|--------|------------------------------|
| 5 030 - BZKS20-3.5B | 5 060 - BZKS20-4.5B | | X | | | X | ss,ssi | ss,ssi | Dss,ss |
| 5 061 - BZKS20-3.6S | 5 071 - BZKS20-4.6S | | X | | X | | st,sti | ss,ssi | Dstn,ss In + 5 757 |
| 5 062 - BZKS20-3.7B | 5 072 - BZKS20-4.7B | | X | | | X | st,sti | ss,ssi | Dstn,ss In + 5 757 |
| 5 066 - BZKS20-5.6S | 5 076 - BZKS20-6.6S | X | | | X | | st,sti | ss,ssi | Dstn,ss In + 5 759 |
| 5 086 - BZKS20-5.6B | 5 096 - BZKS20-6.6B | X | | | | X | st,sti | ss,ssi | Dstn,ss In + 5 759 |
| 5 124 - BZKS20-3.4SN | 5 154 - BZKS20-4.4SN | | X | | X | | S1÷S4: 4x st,sti | | Dstn,stn In + 5 757 |
| 5 125 - BZKS20-3.5SN | 5 155 - BZKS20-4.5SN | | X | | X | | S1÷S4: 4x ss,ssi | | Dss,ss |
| 5 129 - BZKS20-3.4BN | 5 159 - BZKS20-4.4BN | | X | | | X | S1÷S4: 4x st,sti | | Dstn,stn In + 5 757 |
| 5 130 - BZKS20-3.5BN | 5 160 - BZKS20-4.5BN | | X | | | X | S1÷S4: 4x ss,ssi | | Dss,ss |
| 5 126 - BZKS20-3.6SN | 5 156 - BZKS20-4.6SN | | X | | X | | S1÷S4: 1x st,sti 3x ss,ssi | | Dstn,ss In + 5 757 |
| 5 127 - BZKS20-3.7SN | 5 157 - BZKS20-4.7SN | | X | | X | | S1÷S4: 2x st,sti 2x ss,ssi | | Dstn,ss In + 5 757 |
| 5 128 - BZKS20-3.8SN | 5 158 - BZKS20-4.8SN | | X | | X | | S1÷S4: 3x st,sti 1x ss,ssi | | Dstn,ss In + 5 757 |
| 5 131 - BZKS20-3.6BN | 5 161 - BZKS20-4.6BN | | X | | | X | S1÷S4: 1x st,sti 3x ss,ssi | | Dstn,ss In + 5 757 |
| 5 132 - BZKS20-3.7BN | 5 162 - BZKS20-4.7BN | | X | | | X | S1÷S4: 2x st,sti 2x ss,ssi | | Dstn,ss In + 5 757 |
| 5 133 - BZKS20-3.8BN | 5 163 - BZKS20-4.8BN | | X | | | X | S1÷S4: 3x st,sti 1x ss,ssi | | Dstn,ss In + 5 757 |
| 5 146 - BZKS20-5.4S | 5 196 - BZKS20-6.4S | ZIB – 5 203 | | | X | | st,sti | PD | Dstn,stn In + 5 755 |
| 5 147 - BZKS20-5.4B | 5 197 - BZKS20-6.4B | ZIB – 5 203 | | | | X | st,sti | PD | Dstn,stn In + 5 755 |
| 5 148 - BZKS20-5.5SN | 5 198 - BZKS20-6.5SN | | | X | X | | st,sti | ss,ssi | Dstn,stn In + Dss,ss + 5 755 |
| 5 149 - BZKS20-5.5BN | 5 199 - BZKS20-6.5BN | | | X | | X | st,sti | ss,ssi | Dstn,stn In + Dss,ss + 5 755 |

Note: The board 5 755, 5 757 or 5 759 with resistors is enclosed to every variant with supervision **Dstn,ss In** (5 581) a **Dstn,stn In** (5 591). (The board stated (in parentheses) in variants 5 021, 5022, 5026. 5027 a 5 051, 5052, 5056. 5057 is intended for use in NS AŽD No. 80413)

Source ZIP 5 201 – source of code frequencies for PZS 0,651 Hz and 0,976 Hz (40 and 59 cycles/min)

Source ZIZ 5 202 – source of code frequencies for signalling circuits, set to delay mode of the fourth output Z1,8 Hz

Source ZIB 5 203 – source of code frequencies for signalling circuits with frequency 2/3 Hz and pulse ratio 2:1 (Belorussia)

Usage of BZKS20 variants:

72845 5 001÷ 005 (5 031 ÷ 5 035) – Simple substitution of electronic encoder EK1 – mains power supply
72845 5 011÷ 5 015 (5 041 ÷ 5 045) – Simple substitution of electronic encoder EK1 – battery power supply

72845 5 06÷ Ds10 (Ds36 ÷ Ds40) – Simple substitution of electronic oscillator EKM1 – mains power supply
72845 Ds16÷ Ds20 (Ds46 ÷ Ds50) – Simple substitution of electronic oscillator EKM1 – battery power supply

72845 5 021÷ 5 022 (5 051 ÷ 5 052) – BZKS20 application for SZZ – mains power supply } one frequency
72845 5 026÷ 5 027 (5 056 ÷ 5 057) – BZKS20 application for SZZ – battery power supply } of oscillation

72845 5 023 (5 053) – BZKS20 application for SZZ – mains power supply } two frequencies
72845 5 028 (5 058) – BZKS20 application for SZZ – battery power supply } of oscillation

- 72845 5 024 ÷ 5 025 (5 054 ÷ 5 055) – BZKS20 application for PZS – mains power supply
72845 5 029 ÷ 5 030 (5 059 ÷ 5 060) – BZKS20 application for PZS – battery power supply
- 72845 5 061 (5 071) – BZKS20 application for PZS with level-crossing signals – mains power supply
72845 5 062 (5 072) – BZKS20 application for PZS with level-crossing signals – battery power supply
- 72845 5 066 (5 076) – BZKS20 application for SZZ with DC power supply of track board – mains power supply
72845 5 086 (5 096) – BZKS20 application for SZZ with DC power supply of track board – battery power supply
- 72845 5 124, 5 125 (5 154, 5 155) – BZKS20 application for PZS with higher number of road warning signals – mains power supply
72845 5 129, 5 130 (5 159, 5 160) – BZKS20 application for PZS with higher number of road warning signals – battery power supply
- 72845 5 126 ÷ 5 128 (5 156 ÷ 5 158) – BZKS20 application for PZS with higher number of road warning signals with level-crossing signals – mains power supply
72845 5 131 ÷ 5 133 (5 161 ÷ 5 163) – BZKS20 application for PZS with higher number of road warning signals with level-crossing signals – battery power supply
- 72845 5 146 (5 196) – Application for SZZ with frequency 2/3 Hz (pulse ratio 2:1) – mains power supply
72845 5 147 (5 197) – Application for SZZ with frequency 2/3 Hz (pulse ratio 2:1) – battery power supply
72845 5 148, 5 149 (5 198, 5 199) – BZKS20 application for creation of adequate substitution of fully equipped electronic oscillator EKM1 No. 719455 1(11)

Annex T2 – List of the BZKS20 spare parts

| | |
|-------------|---|
| 728455 100 | Power supply N230V |
| 72845 5 150 | Power supply N24V |
| 72845 5 200 | Impulse source ZI |
| 72845 5 201 | Impulse source ZIP |
| 72845 5 202 | Impulse source ZIZ |
| 72845 5 203 | Impulse source ZIB |
| 72845 5 300 | AC switch Sst |
| 72845 5 401 | DC switch Sss In. (since 04/2007) |
| 72845 5 500 | Supervision Dst,st |
| 72845 5 550 | Supervision Dss,ss |
| 72845 5 570 | Supervision Dst,ss |
| 72845 5 581 | Supervision Dstn,ss In. (since 05/2008) |
| 72845 5 591 | Supervision Dstn,stn In. (since 05/2007) |
| 72845 5 600 | Connecting board PD |
| 72845 5 750 | Shelf for panel of free coupling for BZKS20 |
| 72845 5 751 | Shelf for panel of free coupling for BZKS20 with extension |
| 72845 5 755 | Board with resistors for D _{stn} 4x 10k (for BZKS20 with Sst) |
| 72845 5 757 | Board with resistors for D _{stn} 4x 220R |
| 72845 5 759 | Board with resistors for D _{stn} 4x 470R |