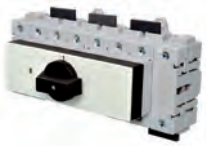
# PRODUCT OVERVIEW

B-COMMAND®

| | Direct | Lady | Stilo | MPA Metal | Compact |
|---|---|---|---|---|---|
| | Pendant Station | Pendant Station | Pendant Station | Pendant Station | Joystick Station |
| | | | | | |
| | • Main Power Circuit<br>• 1 row<br>• 1-3 buttons<br>• plastic enclosure<br>• dust-proof buttons<br>• cable entry top side | • Auxiliary Power Circuit<br>• 1 row<br>• 2-12 buttons<br>• plastic enclosure<br>• dust-proof buttons<br>• cable entry top or bottom side | • Auxiliary Power Circuit<br>• 1 or 2 rows<br>• 4-14 buttons<br>• plastic enclosure<br>• cable entry top or bottom side | • Auxiliary Power Circuit<br>• 1, 2 or 3 rows<br>• 1-18 buttons<br>• metal enclosure<br>• big range of buttons for customization | • Auxiliary Power Circuit<br>• max. 2 joysticks<br>• max. 3 buttons and emegency stopp<br>• labelling customized<br>• Potentiometer for joysticks<br>• carrying strap |
| Protection Degree | IP 65 | IP 65 | IP 65 | IP 65 | IP 65 |
| Operational temperature | -25°C to +70°C | -25°C to +70°C | -25°C to +70°C | -25°C bis +70°C | -25°C to +60°C |
| Marking | CE | CE | CE | CE | CE |

| | MC / MW | Micro | Jump | Joy Sys | Joy Plus |
|---|---|---|---|---|---|
| | Joystick | Remote Control | Remote Control | Remote Control | Remote Control |
| | | | | | |
| | • max. 4 positions each direction<br>• optional handle grip<br>• optional potentiometer, electrical interlock and dead-man switch | • 6-8 functional keys<br>• range 80m<br>• autonomy ≥8h<br>• secured by electronic key<br>• receiver with 12 relays<br>• double control channels for more safety | • 6-13 functional keys<br>• range 80m<br>• autonomy ≥10h<br>• receiver with 12-20 relays<br>• double control channels for more safety<br>• optional enclosure for receiver | • max. 2 joysticks<br>• range 80m<br>• autonomy ≥8h<br>• receiver with 20 relays<br>• double control channels for more safety<br>• enclosure for receiver<br>• customized versions available | • max. 2 joysticks<br>• display<br>• bidirectional communication<br>• range 80m<br>• autonomy ≥8h<br>• receiver with 20 relays<br>• enclosure for receiver<br>• customized versions available |
| Protection Degree | IP 00 | IP 65 | IP 65 | IP 65 | IP 65 |
| Operational temperature | -25°C to +60°C | -10°C to +55°C | -10°C to +55°C | -10°C to +55°C | -10°C to +55°C |
| Marking | CE | CE | CE | CE | CE |

| Accept-A | Accept-B | Safety Line Panel Mounted | Safety Line Surface Mounted | Safety Line ASI | ECO-Line |
|---|---|---|---|---|---|
| Enabling Switch | Enabling Switch | Emergency Off Button | Emergency Off Button | Emergency Off Button | Main Switch |
| | | | | | |
| • panel mounted switch<br>• 3-position switch acc. to IEC60947-5-8<br>• ergonomic design<br>• direct opening<br>• optional redundant contacts<br>• round or angular devices | • grip switch housing<br>• 3-position switch acc. to IEC60947-5-8<br>• ergonomic design<br>• direct opening<br>• optional redundant contacts<br>• optional emergency off button<br>• wall mounting | • modular design without enclosure<br>• big range of red and black buttons<br>• diverse contact elements<br>• illuminated<br>• lockable<br>• for hygiene areas (IP69K)<br>• pre-assembled set's | • modular design with enclosure<br>• big range of red and black buttons<br>• diverse contact elements<br>• illuminated<br>• lockable<br>• pre-assembled set's | • AS Interface Safety at Work<br>• Panel mounted or surface mounted version<br>• SIL 3<br>• optional illuminated<br>• pre-assembled surface mounted version<br>• diverse accessory | • 10A up to 100A<br>• 3 o 4 poles<br>• 4-screw mounting<br>• enclosure version<br>• padlock interlock<br>• optional auxiliary contacts |
| IP 65 / IP 40 | IP 66 / IP 65 | IP 65 front side | IP 65 | IP 65 | IP 65 (front side) |
| -20°C to +60°C | -25°C to +70°C | -30°C to +80°C | -30°C to +80°C | -25°C to +70°C | -25°C to +70°C |
| CE, UL | CE | CE, UL, CSA, CCC | CE, UL, CSA, CCC | CE, TÜV | CE |

| Premium-Line | Premium-Line | Premium-Line | Premium-Line | PV-Line | Cam-Line |
|---|---|---|---|---|---|
| Main Switch | Main Switch | Main Switch | On-Load Changeover Switch | DC-Disconnector | Cam Switch |
| | | | |  | |
| • 16A up to 250A<br>• 3, 4 or 6 poles<br>• 4-screw mounting<br>• Base mounting<br>• central mounting<br>• padlock interlock<br>• optional auxiliary contacts<br>• red or black actuator | • 16A up to 250A<br>• 3, 4 or 6 poles<br>• DIN-Rail mounting<br>• optional auxiliary contacts<br>• red or black actuator<br>• padlock interlock | • 16A up to 250A<br>• 3, 4 or 6 poles<br>• enclosure version<br>• padlock interlock<br>• optional auxiliary contacts<br>• different cable entries<br>• red or black actuator | • 25A up to 250A<br>• 3 o 4 poles<br>• 4-screw mounting<br>• Din-Rail mounting<br>• red or black actuator | • 220V, 400V, 600V and 1000V DC<br>• 25A up to 125A<br>• 4-screw mounting<br>• Base mounting<br>• enclosure version<br>• padlock interlock<br>• red or black actuator<br>• optional auxiliary contacts | • 10A up to 315A<br>• multiple no. of poles<br>• multiple switch functionalities<br>• multiple actuator types<br>• red or black actuator<br>• optional auxiliary contacts |
| IP 65 (front side) | IP 65 (front side) | IP 65 | IP 65 | IP 65 | IP 65 |
| -20°C to +50°C | -20°C to +50°C | -20°C to +50°C | -20°C to +50°C | -20°C to +50°C | -20°C to +50°C |
| CE, UL,CSA,GL | CE, UL,CSA,GL | CE, UL,CSA,GL | CE, UL, CSA,GL | CE, UL, CSA,GL | CE, UL, CSA,GL |

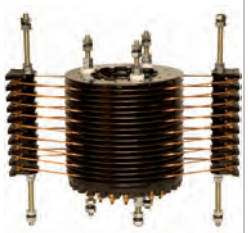
| FRS | FCN | FRM | Zeta | Lambda | Sigma |
|---|---|---|---|---|---|
| Rotary Limit Switch | Rotary Limit Switch | Rotary Limit Switch | Pinion Gear | Cross Limit Switch | Cross Limit Switch |
| | | | | | |
| • 2-4 contacts<br>• revolution ratios 1:15 up to 1:175<br>• male coupling<br>• customized pinion gears<br>• potentiometer / encoder | • 2-5 contacts<br>• revolution ratios 1:7,5 up to 1:550<br>• male coupling<br>• customized pinion gears<br>• potentiometer / encoder<br>• flange | • 2-10 contacts<br>• revolution ratios 1:1 up to 1:900<br>• different ratios in one housing<br>• male coupling<br>• customized pinion gears<br>• potentiometer / encoder<br>• flange | • plastic or metal material<br>• module 6 up to module 22, diverse number of teeth<br>• customized production for small quantities | • 2-4 contacts<br>• slow down and stop function for 2 directions<br>• metal enclosure<br>• 2, 3 or 5 maintained positions | • 2-4 contacts<br>• slow down and stop function for 2 directions<br>• plastic enclosure<br>• 3 or 5 maintained positions |
| IP 65 | IP 55 | IP 66 | - | IP 65 | IP 65 |
| -20°C to +60°C | -20°C to +60°C | -40°C to +70°C | -40°C to +70°C | -20°C to +70°C | -25°C to +55°C |
| CE | CE | CE, UL | CE | CE | CE |

| Gamma | Gamma | Gamma | Delta | Delta | Delta |
|---|---|---|---|---|---|
| Foot Switch | Foot Switch | Foot Switch | Foot Switch | Foot Switch | Foot Switch |
| | | | | | |
| • plastic enclosure<br>• without foot protection<br>• different colours<br>• different contact blocks<br>• safety lever<br>• interlock option<br>• 2-position switch | • plastic enclosure<br>• with foot protection<br>• different colours<br>• different contact blocks<br>• safety lever<br>• interlock option<br>• 2-position switch | • plastic enclosure<br>• multiple foot switch<br>• optional foot protection<br>• different colours<br>• different contact blocks<br>• safety lever<br>• interlock option | • metal enclosure<br>• without foot protection<br>• colour grey<br>• different contact blocks<br>• safety lever<br>• interlock option<br>• 2-position switch | • metal enclosure<br>• with foot protection<br>• colour grey<br>• different contact blocks<br>• safety lever<br>• interlock option<br>• 2-position switch | • metal enclosure<br>• multiple switch<br>• with / withour foot protection<br>• colour grey<br>• different contact blocks<br>• safety lever<br>• interlock option<br>• 2-position switch |
| IP 65 | IP 65 | IP 65 | IP 54 / IP 65 | IP 54 / IP 65 | IP 54 / IP 65 |
| -25°C to +80°C | -25°C to +80°C | -25°C to +80°C | -25°C to +70°C | -25°C to +70°C | -25°C to +70°C |
| CE | CE | CE | CE | CE | CE |

| | Logo TL 10 | Logo TL 20 | Logo TL 40 | Tecno 6 | Tecno 4 |
|---|---|---|---|---|---|
| | DC-Contactor | DC-Contactor | DC-Contactor | DC-Contactor | DC-Contactor |
| | | | | | |
| | • DC contactors for battery vehicles<br>• 100A<br>• 12V up to 48V<br>• plastic enclosure<br>• coils for intermitted or permanent mode<br>• Magnetic Blowout | • DC contactors for battery vehicles<br>• 150A<br>• 12V up to 96V<br>• coils for intermitted or permanent mode<br>• auxiliary contacts<br>• optional larger contacts<br>• Magnetic Blowout | • DC contactors for battery vehicles<br>• 220A<br>• 12V up to 96V<br>• coils for intermitted or permanent mode<br>• auxiliary contacts<br>• optional larger contacts<br>• Magnetic Blowout | • DC contactors for battery vehicles<br>• 120A /180A<br>• 12V up to 36V<br>• metal enclosure<br>• coils for intermitted or permanent mode | • DC contactors for battery vehicles<br>• 150A<br>• 12V up to 36V<br>• metal enclosure<br>• coils for intermitted or permanent mode |
| Protection Degree | IP 00 | IP 00 | IP 00 | IP 00 | IP 00 |
| Operational temperature | -25°C to +40°C | -25°C to +40°C | -25°C to +40°C | -25°C to +40°C | -25°C to +40°C |
| Marking | CE | CE | CE | CE | CE |

| | Team | Europe | Europe Air-Tech | Beta | Beta |
|---|---|---|---|---|---|
| | DC-Motor Reverser | DC-Connector | DC-Connector | Cable Junction Box | Industrial Enclosure |
| | | | | | |
| | • DC motor reverser for battery vehicles<br>• 120 / 150A<br>• 12V up to 24V<br>• plastic enclosure<br>• coils for 50% intermitted mode | • 80A / 160A / 250A / 320A<br>• acc. to DIN 43589-1, DIN 43589-2<br>• 24V up to 96V<br>• coding pin for different voltages<br>• optional auxiliary contacts | • 80A / 160A / 320A<br>• acc. to DIN 43589-1, DIN 43589-2<br>• 24V up to 96V<br>• coding pin for different voltages<br>• optional auxiliary contacts<br>• air supply system | • shock-resistant enclosures<br>• material: ABS<br>• cable entry with stepped diameters or membrane entry<br>• diverse sizes | • shock-resistant enclosures<br>• material: PC, ABS<br>• transparent cover<br>• diverse sizes<br>• optional nylon hinged screws |
| Protection Degree | IP 65 | IP 23 | IP 23 | IP 65 | IP 65 |
| Operational temperature | -25°C to +40°C | -25°C to +70°C | -25°C to +70°C | -5°C to +60°C | -5°C to +60°C |
| Marking | CE | CE | CE | CE | CE |

| PRP | PRS | PMS | PMT | EXD | PME |
|---|---|---|---|---|---|
| Slip Ring | Slip Ring | Slip Ring | Slip Ring | Slip Ring | Slip Ring |
| | | | | | |
| • plastic enclosure<br>• 20A / 30A / 50A<br>• 6-36 rings<br>• mixed execution<br>• brushes brass or copper-graphite | • aluminium enclosure<br>• 20A / 30A / 50A<br>• 6-15 rings<br>• mixed execution<br>• brushes brass or copper-graphite | • aluminium enclosure<br>• 20A / 50A<br>• 10-30 rings<br>• mixed execution<br>• including cable<br>• optional encoder<br>• brushes copper-graphite | • aluminium enclosure<br>• 10A<br>• 6-30 rings<br>• including cable<br>• brushes copper-graphite | • aluminium enclosure<br>• 0,5A / 7A / 27A<br>• 4-6 rings<br>• ATEX 6062<br>• brushes copper-graphite | • aluminium enclosure<br>• 20A / 50A / 100A<br>• 20-60 rings<br>• mixed executions<br>• including cable<br>• optional encoder<br>• brushes copper-graphite<br>• optional passage for air |
| IP 51 | IP 55 | IP 55 | IP 55 | IP 65 | IP 65 |
| -20°C to +60°C | -20°C to +60°C | -20°C to +60°C | -20°C to +60°C | -20°C to +40°C | -20°C to +60°C |
| CE | CE | CE | CE | CE, ATEX | CE |

| PMP | PRM | PRG | PSG | KOMBI-PMS | KOMBI-PMT |
|---|---|---|---|---|---|
| Slip Ring | Slip Ring | Slip Ring | Slip Ring | Slip Ring | Slip Ring |
| | | |  | | |
| • metal enclosure<br>• 20A / 50A<br>• 18-42 rings<br>• mixed execution<br>• including cable<br>• optional encoder<br>• brushes copper-graphite | • metal enclosure<br>• 20A / 30A / 50A<br>• 18-42 rings<br>• mixed execution<br>• brushes copper-graphite | • without enclosure<br>• 50A / 80A / 120A<br>• 4-14 rings<br>• brushes brass or copper-graphite | • without enclosure<br>• 20A / 60A<br>• 4-36 rings<br>• brushes copper-graphite | • aluminium enclosure<br>• 20A / 50A<br>• 6-30 rings<br>• passage for air<br>• including cable<br>• brushes copper-graphite | • aluminium enclosure<br>• 10A<br>• 6-30 rings<br>• passage for air<br>• including cable<br>• brushes copper-graphite |
| IP 42 | IP 42 | IP 00 | IP 00 | IP 55 | IP 55 |
| -20°C to +60°C | -20°C to +60°C | -20°C to +60°C | -20°C to +60°C | -10°C to +45°C | -10°C to +45°C |
| CE | CE | CE | CE | CE | CE |

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