

Construction and mobile cranes









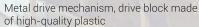


VCS0 VNS0 NNS0









- Long mechanical service life of up to 10 million switching cycles
- Optional retrofitting of potentiometers, optoelectronic encoders
- Maximum 6-0-6 stages with standard or custom switching mechanisms
- Weight-optimized design,
- Friction brake, spring-return or indexed
- Combinable with several SPOBU handles
- Very robust drive mechanism and metal
- Long mechanical service life of up to 20 million switching cycles
- Maximum 7-0-7 stages
 Optional retrofitting of potentiometers,
- optoelectronic encoders • Versions for Ex-zone available
- · Version with double lever available
- Combinable with several SPOBU handles
- Extremely robust metal drive mechanism
- · Long mechanical service life of up to 25 million switching cycles
- Maximum 6-0-6 stages
- Optional retrofitting of potentiometers, optoelectronic encoders
- · Versions for Ex-zone available
- Optionally with integrated interfaces for CANopen, SAEJ1939, Profibus, ProfiNet
- · Combinable with several SPOBU handles
- Metal drive mechanis of high-quality plasti
- · Long mechanical ser million switching cyc
 Non-contact HALL s
- weight plastic potent
- · Microswitches for ha · Optionally integrated
- CANopen, SAEJ1939 · Combinable with sev





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vice life of up to 10

ensors or lightiometers rdware wiring

interfaces for , Profibus

eral SPOBU handles

- Metal drive mechanism and drive block
- Long mechanical service life of up to 20 million switching cycles
- · Non-contact HALL sensors and/or lightweight plastic potentiometers

 • Microswitches for hardware wiring
- Optionally integrated interfaces for CANopen, CANopenSafety, Profibus, ProfiNet, ProfiNet with ProfiSafe protocol
- Combinable with several SPOBU handles
- Metal drive and housing
- Long mechanical service life of up to 10 million switching cycles
- Non-contact 3D Hall sensors
- Low installation depthRedundant analogue exit
- · Optional external interfaces for CANopen, SAEJ1939, Profibus, ProfiNet
- Combinable with several SPOBU handles
- Metal drive and housing
- Long mechanical service life of up to 10 million switching cycles
- Non-contact 3D Hall sensors
- Redundant analogue exitOptional integrated interfaces for
- CANopen, SAEJ1939, Profibus, ProfiNet Combinable with several SPOBU handles

Handles

Standard handles



- Standard plastic handle for CS1, VCS0 and VNS0 joysticks G48
- · Optionally with recessed or protruding button with various protection ratings
- Available with integrated capacitive hand recognition
- Version G41-Z for mechanically locking joystick

G22



- · Plastic handle Ø 40 mm
- A maximum of 1 pushbutton can be integrated
- Recessed or protruding pushbutton installation
- Version G22Z for mechanically locking joystick
- · Combinable with several SPOBU joysticks



- · Standard plastic handle for NNS0 joysticks
- · Optionally with recessed or protruding button with various protection ratings
- · Available with integrated capacitive hand recognition
- Version G46-Z for mechanically locking joystick
- Plastic handle Ø 45 mm
 - · A maximum of 2 pushbuttons can be integrated
 - Recessed or protruding pushbutton installation
 - Version G21Z for mechanically locking joystick
 - · Combinable with several SPOBU joysticks

Palm handles

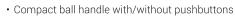
G40

G9

G51



- Ball handle with several installation options
- Push buttons on the side and/or on top
- · Alternatively with toggle switch on top
- · Optionally with hand rest
- · Combinable with several SPOBU joysticks



- · Optionally with capacitive hand recognition sensor · Operable with 2 fingers or whole hand
- · Combinable with several SPOBU joysticks



G21



- · Forward-tilting ball handle
- · Lever switch on front
- · Optionally with toggle switch, pushbutton or rotary potentiometer on top
- · Combinable with several SPOBU joysticks
- G25



- · Compact plastic handle
- · Operable with 2 fingers or whole hand
- · Up to 6 pushbuttons can be integrated
- Combinable with several SPOBU joysticks





- · Compact plastic handle
- · Up to 6 pushbuttons can be integrated
- Combinable with several SPOBU joysticks

Ball handles

KG56-IKKZ



- · Ball handle for mechanical locking for VNS0, NNS0, VNS2 iovsticks
- · in combination with slot or cross gates
- · Optionally with contact

T-handles

G1



- T-handle with/without pushbuttons
- · Optional mechanical pivoting for individual adjustment
- Version G1Z for mechanically locking joysticks
- Optionally with dead man's function by pressing down
- Optionally integrated capacitive hand recognition
- · Combinable with several SPOBU joysticks



- T-handle with/without pushbutton
- Stationary or rotating with a maximum of 2-0-2
- Version G13Z for mechanically locking joystick
- · Optionally with capacitive hand recognition sensor
- · Combinable with several SPOBU joysticks

Rotary handles

G50



- · Handle with integrated rotating function
- · Sensors with lightweight plastic potentiometers with direction recognition
- · Combinable with several SPOBU joysticks

Universal handles

G56



- · Ergonomically shaped for left or right hand
- Integrated hand rest for work without fatigue
- Modular design with standard or custom equipment of insert panels
- Optionally integrated capacitive hand recognition sensor
- Optionally rotating
- · Combinable with several SPOBU joysticks

G58





- · Compact, symmetrical, can be used for left or right hand
- Ergonomically shaped for work without fatigue
- Modular design with standard or custom insert panels
- · Catch on the rear
- Optionally integrated capacitive hand recognition sensor
- · Combinable with several SPOBU joysticks

UGA





- Can be used for left or right hand
- Modular design with optional combination of wide and narrow handle halves
- High variability with installation of command devices on top, front or side
- · Lever switch on the rear
- · Optionally with hand rest, can also be updated
- Optionally rotating
- Optionally integrated capacitive hand recognition sensor
- Combinable with several SPOBU joysticks

UGN





- Compact handle can be used for left or right hand
- Ergonomically shaped for work without fatigue
- High variability with installation of command devices on top, front or side
- Integrated surrounding hand rest
- · Optionally integrated capacitive hand recognition sensor
- · Combinable with several SPOBU joysticks



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