



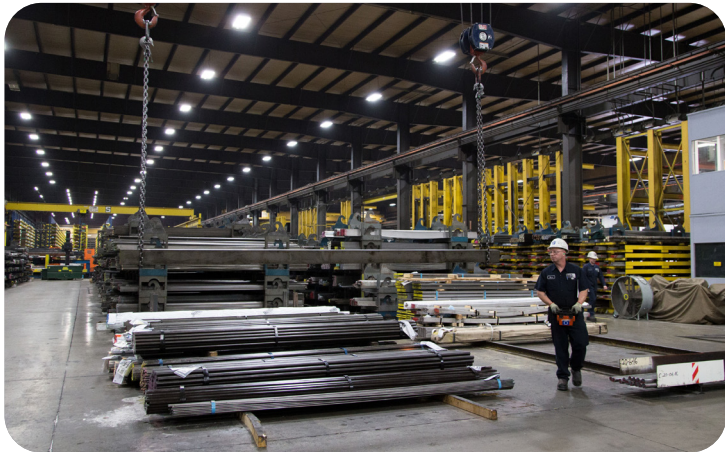
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The compact joystick controller now with the latest generation of high-performance HBC radio technology.



Scale 1:2

Quality in Control.

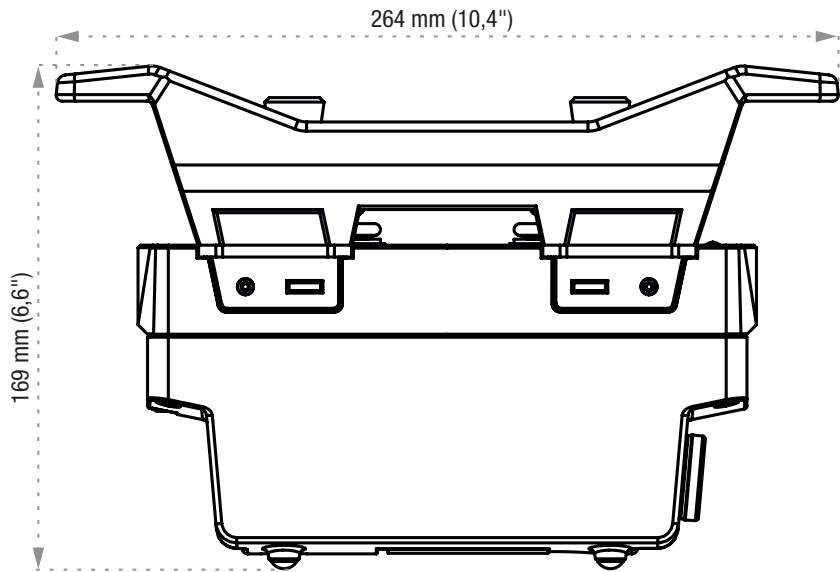
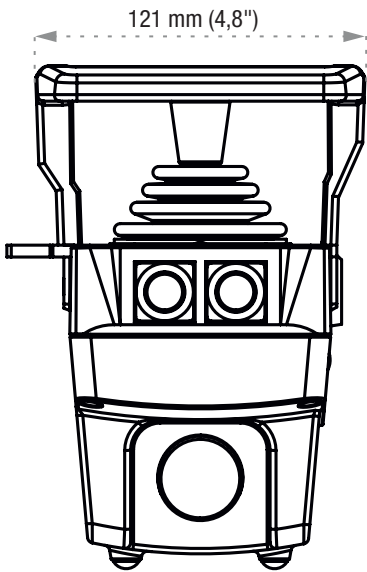


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Technical data



|                           |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      |                                                |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------|
| Radio transmitter         | eco                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |                                                |
| Combined with             | FSE 507 / 510 / 512 / 516 / 524, FSE 726 / 727 / 736 / 737 radiobus®                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                |
| Control concepts          | Point-to-point operation, catch-release, combined operation (tandem, trio, quattro), cable option                                                                                                                                                                                                                                                                                                                   |                                                      |                                                |
| Operating elements        | Up to 2 joysticks; 2 positions for combination of push buttons and / or rotary switches (maintained / spring-return); 4 one-step push buttons on the sides;<br><i>optional</i> : 2 buttons on the frontside of the transmitter to extend the range of commands                                                                                                                                                      |                                                      |                                                |
| Control functions         | Up to 16 control functions (on / off), up to 4 analog functions                                                                                                                                                                                                                                                                                                                                                     |                                                      |                                                |
| Indication                | LED / acoustic signal / transmitter vibration: operating status, battery status                                                                                                                                                                                                                                                                                                                                     |                                                      |                                                |
| Safety                    | E-STOP: PL d category 3 according to EN ISO 13849-1:2015<br>Protection from unauthorized use: activation via HBC start-up sequence or merlin® TUC<br>Auto Power Off: automatic deactivation of the transmitter after 15 min without command input<br><i>optional</i> : Auto Movement Off: automatic deactivation of movement functions after 5 min without command input; shut-down on implausible control commands |                                                      |                                                |
| Enhanced safety functions | radiomatic® shock-off / zero-g / inclination switch; <i>optional</i> : radiomatic® infrakey, micro drive                                                                                                                                                                                                                                                                                                            |                                                      |                                                |
| Feedback to the operator  | Information and warnings via transmitter vibration or up to 20 LEDS (single color or 6 RGB LEDS)                                                                                                                                                                                                                                                                                                                    |                                                      |                                                |
| Service concept           | radiomatic® iLOG, radiomatic® ADCON, teach battery for pre-setting of proportional functions                                                                                                                                                                                                                                                                                                                        |                                                      |                                                |
| Frequency ranges          | <b>ISM bands</b>                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      |                                                |
|                           | country-specific use:<br>405 – 475 MHz<br>865 – 870 MHz<br>902 – 928 MHz                                                                                                                                                                                                                                                                                                                                            | country-independent use:<br>2.4 GHz: 2401 – 2480 MHz | country-specific use:<br>DECT: 1790 – 1930 MHz |
| Frequency management      | Fixed frequency, radiomatic® AFS, Adaptive Frequency Hopping, DECT, radiomatic® AFM                                                                                                                                                                                                                                                                                                                                 |                                                      |                                                |
| Antenna                   | Internal                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |                                                |
| Battery technology        | Rechargeable NiMH exchange battery; continuous operating time: typically 14 hours                                                                                                                                                                                                                                                                                                                                   |                                                      |                                                |
| Charging time             | < 5 h (typ.)                                                                                                                                                                                                                                                                                                                                                                                                        |                                                      |                                                |
| Housing material          | Plastic (PA6 GF30)                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |                                                |
| Weight                    | 1.5 kg (3.3 lb.)                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      |                                                |
| Operating temperature     | -25 °C ... +70 °C                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                                                |
| Protection class          | IP 65                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |                                                |



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# eco

The unbeatable quality of the HBC joystick in the smallest transmitter format: That is eco. With its new design, this proven device now offers the latest HBC radio technology and numerous innovative features. This makes the all-rounder the perfect choice for diverse applications, from industrial and construction cranes to mobile hydraulic applications to machines in agriculture and forestry.

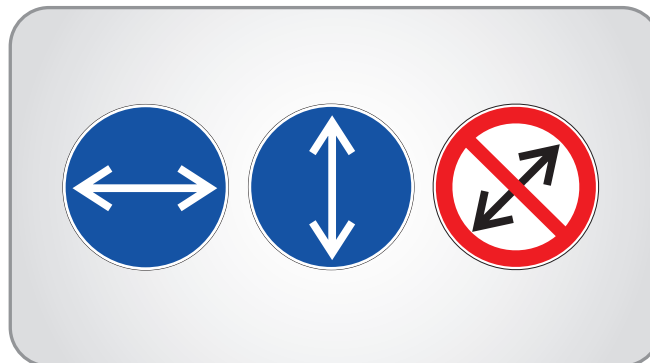
## Valuable features and options at a glance:



### Intelligent frequency management

#### First-class technologies for areas with high radio traffic

The transmitter is available with HBC's cutting-edge frequency management technologies and is, thus, the perfect choice for areas with many radio users or environments with frequently changing spectrum demands.



### Micro / orthogonal drive

#### Reach your destination safely

During difficult maneuvers, these functions protect the operator from dangers resulting from driving too fast or unintended direction changes of the crane / machine.



### merlin® TUC (Transmitter User Card)

#### Simple and safe management of access rights

merlin® TUC protects the control against unauthorized use. In addition, this card allows you to unlock or lock machine functions for each different operator.



### radiomatic® iLOG

#### Service without downtime

This clever electronic key enables the quick activation of a spare transmitter if the original transmitter is damaged. This means service without expensive downtime.



High-performing rechargeable NiMH battery.



E-STOP.



Carrying with the hip belt.