



# spectrum G

Unlimited possibilities for very large machine applications.



Scale 1:3

**Quality in Control.**



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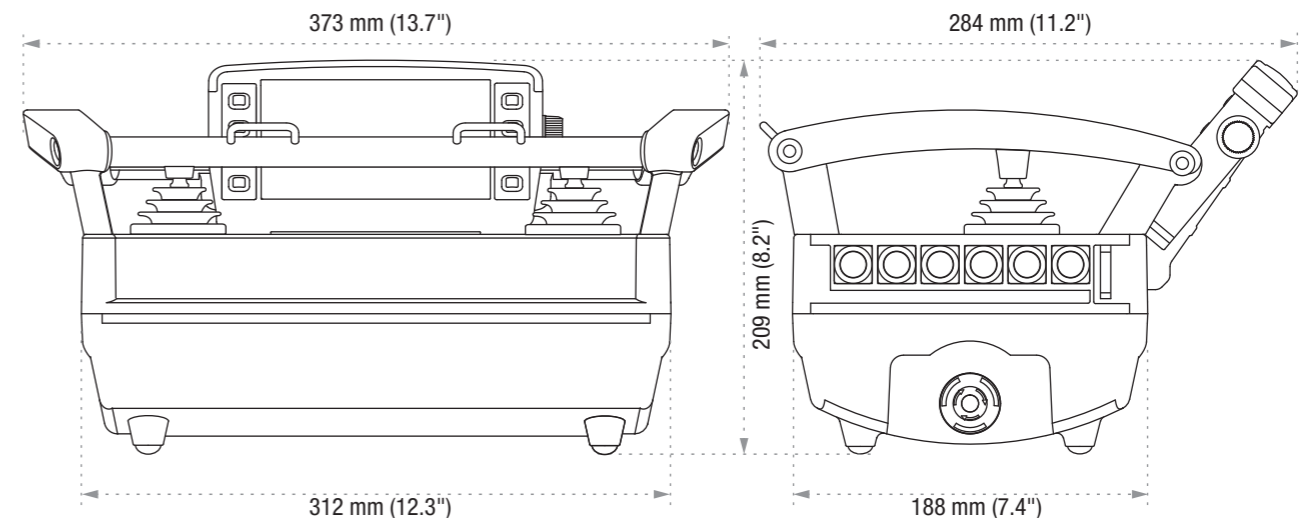


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## Technical data

<b>Radio transmitter</b>	spectrum G		
<b>Combined with</b>	FSE 510 / 516 / 524, FSE 726 / 727 / 736 / 737 / 776 / 777 radiobus®		
<b>Control concepts</b>	Point-to-point operation, catch-release, combined operation (tandem, trio, quattro), hoist / trolley pre-selection; cable option		
<b>Operating elements</b>	Up to 6 joysticks or up to 10 linear levers; combination of push buttons, toggle switches, rotary switches (maintained / spring-return) and other operating elements; a total of 12 one-step push buttons on the sides; radiomatic® iCON for display navigation; 8 push buttons located on the sides of the display for navigation and for quick access to pre-defined functions; <i>optional</i> : joysticks with integrated button; z-axis switches for the simultaneous control of 3 drives		
<b>Control functions</b>	Up to 32 control functions (on / off); up to 12 analog functions for joysticks / linear levers; up to 4 additional analog functions, e. g. for potentiometers; number of control functions expandable by radiobus® modules		
<b>Indication</b>	LED / acoustic signal / transmitter vibration / display: operating status, battery status		
<b>Safety</b>	E-STOP: PL d category 3 according to EN ISO 13849-1:2015 Protection from unauthorized use: activation via HBC start sequence or merlin® TUC Auto Power Off: automatic deactivation of the transmitter after 15 min without command input Auto Movement Off: automatic deactivation of movement functions after 5 min without command input		
<b>Enhanced safety functions</b>	radiomatic® shock-off / zero-g / inclination switch; <i>optional</i> : access control with merlin® TUC, radiomatic® infrakey, micro / orthogonal drive, two-step enabling switch, radiomatic® touch-to-activate, front panel lighting, flashlight, shut-down on implausible control commands		
<b>Feedback to the operator</b>	Data, information and warnings via 5" color TFT display; information and warnings via 16 LEDs and / or transmitter vibration; number of LEDs expandable by radiobus® modules		
<b>Service concept</b>	radiomatic® iLOG, radiomatic® ADCON, merlin® TMC (Teach Mode Card) for teaching of hydraulic functions		
<b>Frequency ranges</b>	<b>ISM bands</b>	<b>Channel spacing</b>	<b>Radiated power</b>
	country-specific use: 405 – 475 MHz 865 – 870 MHz	12.5 / 25 kHz 25 kHz	max. 10 mW max. 10 mW
	902 – 928 MHz	75 kHz	max. 70 mW
	country-independent use: 2.4 GHz: 2402 – 2480 MHz country-specific use: DECT: 1790 – 1930 MHz	1 MHz 1.728 MHz	max. 100 mW max. 250 mW
<b>Frequency management</b>	Fixed frequency, radiomatic® AFS, DECT, Adaptive Frequency Hopping, radiomatic® AFM		
<b>Antenna</b>	Internal		
<b>Battery technology</b>	Rechargeable Li-ion exchange battery with capacity gauge via LEDs; continuous operating time: typically 18 hours; <i>optional</i> : radiomatic® CPS (Continuous Power Supply)		
<b>Charging time</b>	< 8 h (typ.)		
<b>Housing material</b>	Plastic (PA6 GF30)		
<b>Weight</b>	approx. 3.5 kg (7.7 lb.)		
<b>Operating temperature</b>	-20 °C ... +70 °C (-4 °F ... 158 °F)		
<b>Protection class</b>	IP 65		

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Maximum performance for very large machine applications: Thanks to an extra-large front panel, a huge selection of features and a high-performing 5" color display, spectrum G leaves nothing to be desired.

## Valuable features at a glance:



### Functionally safe commands

**Enhanced safety functions for particular scenarios**  
Apart from the E-STOP, the radio control is available with added safe commands corresponding to PL d category 3 according to EN 13849-1:2015.



### radiomatic® touch-to-activate

**Intelligent protection against unintended initiation of commands**  
In order to enable movement commands, the operator has to touch the roll-over bar or the joystick button. This feature protects the operator against unintended machine movements.



Front view



E-STOP



Flashlight



### radiomatic® CPS (Continuous Power Supply)

**Changing the battery without interrupting work**  
The operator can change the battery without having to deactivate the radio transmitter. The control and machine remain activated. As a result, this function is ideally suited for extended and uninterrupted machine use.



Illustration purposes only

### Front panel lighting

**All information is optimally visible**  
Built in sensors will activate the integrated front panel lighting if necessary.



Status bar indicating connection quality, battery status, date and time

Integrated edge impact protection

Sensors for display brightness and front panel lighting

Entire space can be used for operating elements

8 buttons and radiomatic® iCON for navigation and activation of softkeys



## Feedback via 5" color display.

Safety and comfort paired with individual design.

- State-of-the-art TFT technology for first-class performance.
- Clear presentation of an extensive array of data and information via 800 x 480 pixel high resolution 5" display.
- Automatic adjustment of display brightness matched to the environment, integrated front panel lighting and 80° viewing angle from all directions.
- Layout and display elements can be chosen freely.
- Access to HBC's comprehensive library of commonly used symbols, images and graphics for display design.
- Intuitive HBC menu with setting options, warning messages and system information.



High-performing Li-ion exchange batteries with capacity gauge



radiomatic® iLOG for the quick activation of a spare transmitter



Convenient carrying with the shoulder hook