



# spectrum D

The high-performing radio control with large equipment and display technology.



Scale 1:2.5

**Quality in Control.**

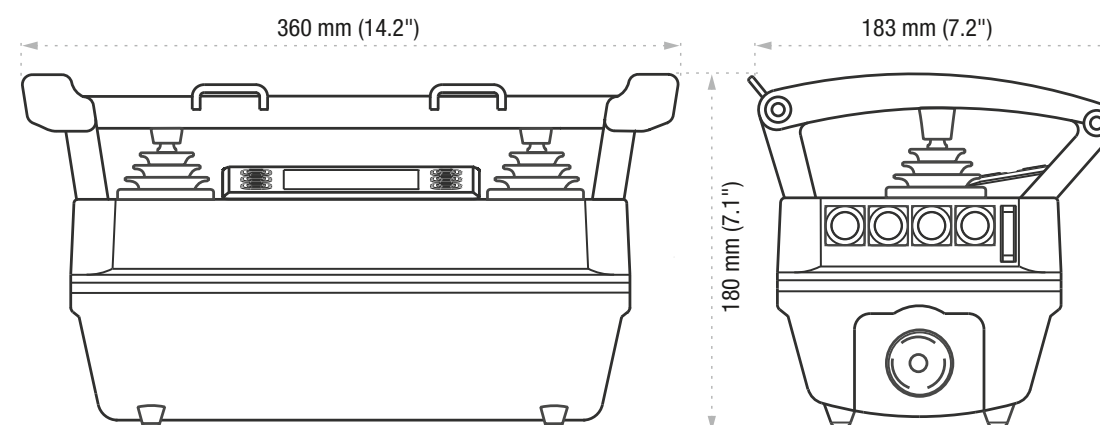


## spectrum D

### Technical data



Radio transmitter	spectrum D		
Combined with	FSE 510 / 516 / 524, FSE 726 / 727 / 736 / 737 / 776 / 777 radiobus®		
Control concepts	Point-to-point operation, catch-release, combined operation (tandem, trio, quattro), pre-selection of trolley / hoist; cable option		
Operating elements	Up to 2 joysticks or up to 8 linear levers; combination of push buttons, toggle switches, rotary switches (maintained / spring- return) and other operating elements; a total of 8 one-step push buttons on the sides; <i>optional</i> : joysticks with integrated button; z-axis switches for the simultaneous control of 3 drives		
Control functions	Up to 32 control functions (on / off); up to 10 analog functions for joysticks / linear levers; up to 4 additional analog functions, e. g. for potentiometer switches; number of control functions expandable by radiobus® modules		
Indication	LED / acoustic signal / transmitter vibration: operating status, battery status		
Safety	E-STOP: PL d category 3 according to EN ISO 13849-1:2015 Protection from unauthorized use: activation via HBC start-up 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		
Enhanced safety functions	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		
Feedback to the operator	Configurable 3.5" color TFT display; <i>optional</i> : radiomatic® photon = feedback of video signals to the 3.5" color TFT display; information and warnings via 16 LEDs and / or transmitter vibration; number of LEDs expandable by radiobus® modules		
Service concept	radiomatic® iLOG, radiomatic® ADCON, merlin® TMC (Teach Mode Card) for teaching of hydraulic functions		
Frequency ranges	ISM bands	Channel spacing	Radiated power
	country-specific use: 405 – 475 MHz 865 – 870 MHz 902 – 928 MHz	12.5 / 25 kHz 25 kHz 25 kHz	max. 10 mW
	country-independent use: 2.4 GHz: 2402 – 2480 MHz	1 MHz	max. 100 mW
	country-specific use: DECT: 1790 – 1930 MHz	1.728 MHz	max. 250 mW
Frequency management	Manual frequency switch, radiomatic® AFS, Adaptive Frequency Hopping, DECT		
Antenna	Internal		
Battery technology	Rechargeable Li-ion exchange battery; <i>optional</i> : capacity gauge via LEDs; continuous operating time: typically 20 hours; <i>optional</i> : radiomatic® CPS		
Charging time	< 8 h (typ.)		
Housing material	Plastic (PA6GF30)		
Dimensions / weight	183 x 360 x 180 mm (7.2" x 14.2" x 7.1") / approx. 3 kg (6.6 lb.)		
Operating temperature	-20 °C ... +70 °C (-4 °F ... 158 °F)		
Protection class	IP 65		



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spectrum D is a high-performing radio control with lots of smart functions and a configurable color display. The front panel can be equipped with HBC joysticks, linear levers and other operating elements to perfectly meet the customer's wishes.

## 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 further safe commands corresponding to PL d category 3 according to EN 13849-1:2015.



### 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 long machine use where no interruption is desired.



### radiomatic® touch-to-activate

#### 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 will protect the operator against unintended machine movements.



### Front panel lighting and flashlight

#### Clear vision even in the dark

These useful features can be conveniently activated at the touch of a button.



Version with linear levers.



E-STOP.



Front view.



## Feedback via color display

The vivid 3.5" color display provides critical machine data in addition to error notifications and warnings, e.g. in case of high engine temperatures or overload conditions.

### Your advantages:

- Free choice of data, graphics and design
- Simple, intuitive menu structure
- Status bar with field strength and battery capacity indication
- Warnings and error notifications appear automatically



High-performing Li-ion exchange batteries, optional with capacity gauge.



radiomatic® iLOG for the quick activation of a spare transmitter.



Carrying with the hip belt.