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## Hbc radiomatic spectrum 3 manual

### What is 3g spectrum.

Model Description Manufacturer N905140007 Remote Control for Cranes HBC-radiomatic GmbH N09C100007 Remote Control for Cranes HBC-radiomatic GmbH N09E20004 Crane Remote Control Transmitter HBC-radiomatic GmbH N09M40004 Crane Remote Control Transmitter HBC-radiomatic GmbH N09M40004 Crane Remote Control Transmitter HBC-radiomatic GmbH N09MEC004 Micro R Ladio Transmitter HBC-radiomatic GmbH N09MED004 Radio Transmitter Spectrum 1 M HBC-radiomatic GmbH N09MICR05 RFID Remote Control HBC-radiomatic GmbH N09MICR07 Remote control with RFID HBC-radiomatic GmbH N09MSB004 Radio Transmitter Spectrum 3 M HBC-radiomatic GmbH N09O10004 REMOTE CONTROL TRANSMITTER FOR INDUSTRIAL USE HBC-radiomatic GmbH N09O10004 REMOTE CONTROL TRANSMITTER FOR INDUSTRIAL USE HBC-radiomatic GmbH N09P10004 REMOTE CONTROL TRANSMITTER FOR INDUSTRIAL USE HBC-radiomatic GmbH N09P10004 REMOTE CONTROL TRANSMITTER FOR INDUSTRIAL USE HBC-radiomatic GmbH N09P10004 REMOTE CONTROL TRANSMITTER HBC-radiomatic GmbH N09P10004 Crane Remote Control Transmitter HBC-radiomatic GmbH N09PMNTU4 Wireless Crane Control HBC-radiomatic GmbH N09PMNTU4 Wireless Crane Control HBC-radiomatic GmbH N09SNTU04 HBC-radiomatic GmbH N09SPCTRUMD Remote Control HBC-radiomatic GmbH N09TGC240 Bluetooth Module HBC-radiomatic GmbH N09TGC241 Bluetooth Module HBC-radiomatic GmbH N09TGC4125 Transceiver Module HBC-radiomatic GmbH N09TGC4126 Transceiver Module HBC-radiomatic GmbH N09TGC4327 Transceiver Module HBC-radiomatic GmbH N09TC690 Transceiver Module HBC-radiomatic GmbH N09TC691 Transceiver Module HBC-radiomatic GmbH N09TCE691 Transceiver Module HBC-radiomatic GmbH Extended control concepts External control concepts - to the overview Bank switch for additional operating levels = additional control functions

Efficiency and safety for cranes with 2 trolleys. Catch releaseShare cranes and machines, optimize workload, and increase safety. Cable optionThe valuable alternative for specific working conditions. Performance & availability Performance & availability - to the overview Bank switch for additional operating levels = additional control functions

radioematic® CPSChange the battery without downtime. Enhanced safety functions Enhanced safety functions - to the overview radiomatic® touch-to-activateSafe and easy release of operating elements. radiomatic® infrakryActivation only with direct visual contact (line of sight). radiomatic® shock-off / zero-g / inclination switchIntelligent safety features for specific emergency situations.

Enabling switchSafe release of defined functions merlin® TUC (Transmitter User Card) - user identificationThe easy and safe arrangement of access rights. Micro driveThe safe speed limit.



patent® shock-off / zero-g / inclination switchIntelligent safety features for specific emergency situations. Enabling switchSafe release of defined functions merlin® TUC (Transmitter User Card) - user identificationThe easy and safe arrangement of access rights. Micro driveThe safe speed limit. Orthogonal driveAlways on the right track. Front plateLighting Safe operation even in poor lighting conditions. FlashlightA better view in darkness. Shut-down on impleasible control commandsIntelligent protection from unintended operation. Feedback to the operator Feedback to the operator « to the overview Information and warnings via LED Information and warnings via transmitter vibration FCC ID: N09MSB004 Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2-4(FCC).doc [ Word 2000 ] / FL/US/MB HBC Page 1 / 22 - Radio Control Radio Transmitter spectrum 3 M for the Constructional and Industrial Use HBC-radiomatic GmbH + D-74564 Crailsheim + Germany Information and specifications subject to change without notice.Operating Instructions Radio Transmitter spectrum 3 M Page 2 / 22 BE-SP3M-V2-4(FCC).doc[ Word 2000 ] / FL/US/MB Manufacturer: HBC-radiomatic GmbH Haller Straße 49 - 53 74564 Crailsheim + Germany Tel. +49 (0) 79 51 - 3 93 - 0 Fax +49 (0) 79 51 - 3 93 - 50 E-mail: info@radiomatic.com HBC radiomatic GmbH is not liable for any misprints or errors! - All rights reserved. ™ radiomatic is a registered German trademark.Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2-4(FCC).doc [ Word 2000 ] / FL/US/MB Page 3 / 22 Table of Contents ..... 1 ..... 2 Safety Instructions ..... 4 2 Safety Instructions

2.2.1. Pictographs: 5.2.2 General Safety Instructions: Operating Instructions Radio Transmitter spectrum 3 M Page 4 / 22 BE-SP3M-V2-4(FCC).doc [ Word 2000 ] FL/US/MB 1 Description The spectrum 3 M transmitter is designed to transmit command instructions for controlling constructional, industrial and mobile cranes, hoists and machines. Depending on the type and version selected, up to 64 digital + 8 proportional control commands plus the integrated STOP commands are available to the operator. Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2-4(FCC).doc [ Word 2000 ] FL/US/MB 2 Safety Instructions 2.1 Pictographs Page 5 / 22 The following pictographs will be used throughout the present operating instructions : Indicates a possible shock hazard. Contacting components under voltage may lead to death. Operating Instructions Radio Transmitter spectrum 3 M Page 6 / 22 BE-SP3M-V2-3.DOC [ Word 2000 ] FL/US 2.2 General Safety Instructions Radio controls facilitate and increase the operating efficiency of cranes and machines. Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2-4(FCC).doc [ Word 2000 ] FL/US/MB 2.3 Page 7 / 22 Operator Safety Instructions Before beginning crane operation, position yourself so that you have a clear and complete overview of the working radius of the crane or machine. To operate, hold the transmitter securely in your hand. Use the optional wrist strap. Follow these instructions to ensure personal safety. Operating Instructions Radio Transmitter spectrum 3 M Page 8 / 22 BE-SP3M-V2-3.DOC [ Word 2000 ] FL/US 3 Operation Caution : The operation of the transmitter is permissible only with the carrying set included with the transmitter (possibility of mixing up the operator controls) 1. 2. 3. 4. Before commissioning the transmitter or initial operation, insert a fully charged battery (FuB 15 AA, yellow or FuB 10 XL, light blue) into battery compartment (pos.) at the bottom of the transmitter. Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2-4(FCC).doc [ Word 2000 ] FL/US/MB Page 9 / 22 Should the operator switch off the transmitter with the STOP pushbutton, following steps have to be carried out for further radio transmission : 1. Switch off the transmitter via the key switch. 2. Unlock the STOP pushbutton by turning. 3. Switch the transmitter on again via the key switch. 4.

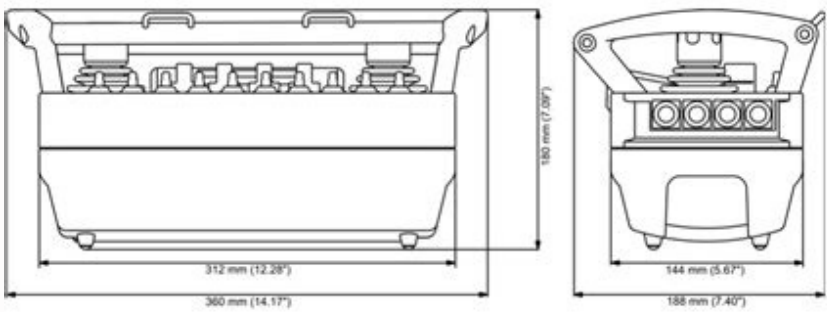


| Technical Data                  |                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Max. number of control commands | -                                                                                                                                 |
| Unique system addresses         | Over 1.000.000 combinations                                                                                                       |
| Supply voltage                  | 0 V                                                                                                                               |
| Safety function                 | E-STOP:<br>Performance Level d, category 3 according to EN ISO 13849-1:2015                                                       |
| Frequency ranges <sup>2</sup>   | 405 – 475 MHz; 865 – 870 MHz;<br>902 – 928 MHz; 1210 – 1258 MHz <sup>1</sup><br>2.4 GHz: 2402 – 2480 MHz<br>DECT: 1790 – 1920 MHz |
| Channel spacing                 | 12.5 / 20 / 25 / 50 / 250 kHz<br>2.4 GHz: 1 MHz<br>DECT: 1.728 MHz                                                                |
| Antenna                         | Internal<br>Option: external                                                                                                      |
| Battery type                    | BA213020 (NiMH)                                                                                                                   |
| Battery capacity                | 2 x 2100 mAh                                                                                                                      |
| Continuous operating time       | Approx. 12 h                                                                                                                      |
| Operating temperature range     | -20 °C ... +70 °C ( -4 °F ... +158 °F)                                                                                            |
| Housing material                | Glass-fiber reinforced plastic / PA6 GF30                                                                                         |
| Dimensions                      | 360 x 188 x 180 mm (14.17 x 7.4 x 7.09 inches)                                                                                    |
| Weight (incl. battery)          | Approx. 3.0 kg (6.61 lbs.)                                                                                                        |
| Protection class                | IP65                                                                                                                              |

<sup>†</sup> Not all frequency ranges available

<sup>2</sup> Some versions are not intended for use in the USA. Please contact Sales at HBC-radiomatic GmbH to find out which version is available for the USA.

### Dimensions



**Important safety instructions:**

The following pictographs will be used throughout the present operating instructions . Indicates a possible shock hazard Contacting components under voltage may lead to death.

**Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2.4(FCC).doc** [ Word 2000 ] / FL/US/MB Manufacturer : HBC-radiomatic GmbH Haller Straße 49 - 75364 Crailsheim - Germany Tel. +49 (0) 79 51 - 3 93 - 0 Fax +49 (0) 79 51 - 3 93 - 50 E-mail: info@radiomatic.com HBC radiomatic GmbH is not liable for any misprints or errors! All rights reserved. " radiomatic is a registered German trademark.

**Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2.4(FCC).doc** [ Word 2000 ] / FL/US/MB Page 3 / 22 Table of Contents 1 Description 4.2 Safety Instructions 5.3.2.1 Pictographs 5.3.2.2 General Safety Instructions 5.3.2.3 Up to 8 signal channels available 5.3.2.4 Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2.4(FCC).doc [ Word 2000 ] / FL/US/MB Page 4 / 22 The transmitter is designed to transmit command instructions for controlling constructional, industrial and mobile cranes, hoists and machines. Depending on the selected frequency band, it can operate at 27 MHz (4FCC), 2.4 GHz (FCC) or 863 MHz (CE).

**Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2.4(FCC).doc** [ Word 2000 ] / FL/US/MB Page 5 / 22 The following pictographs will be used throughout the present operating instructions . Indicates a possible shock hazard Contacting components under voltage may lead to death.

**Operating Instructions Radio Transmitter spectrum 3 M BE-SP3M-V2.4(FCC).doc** [ Word 2000 ] / FL/US/MB Page 6 / 22 Before beginning crane operation, position yourself so that you have a clear and complete overview of the working radius of the crane or machine. To operate, hold the transmitter securely in your hand. Use the optional wrist strap. Follow these instructions to ensure personal safety.

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