DWS
Distance Warning System

The Distance Warning System (DWS) option available for Powerbar® radio remote controls which monitors the distance between the radio remote control and the machine in real time. The system consists of a DWT tag integrated into the Powerbar® and one or more (up to 5) DWA anchors mounted on the machine. It uses Ultra WideBand (UWB) technology, which ensures centimeter-level accuracy over a range of a few dozen meters.

DYN **Dynamic+T Series**

Modularity
Ability to position 1 to 5 anchors on the machine

Integration
Distance data available via CANOpen protocol

Functions
Distance warning, power on restrictions, functionality restrictions, operating distance limitation

Customization
Distance thresholds that can be set according to the specific application

Compatible receiving units
TJQ and TJE Powerbar®



DWS functions

Distance warning
The system can be used to activate an audible, visual or haptic alert when a preset threshold is exceeded. Audible and visual alerts can be generated either on the radio remote control or on the machine, whilst haptic feedback is provided directly on the radio remote control via the vibration of the Powerbar®.

Power on restrictions
The distance control function can be used to ensure that the machine only starts up once it is within a certain distance, as specified by the OEMs.

Functionality restrictions
You can choose to use the proximity sensor to enable or disable some or all of the radio remote control functions.

Operating distance limitation
The DWS can be used to restrict the operation of the radio remote control to a maximum distance.

Discover more

Technical data

Supply voltage (DWA)	12 / 24 V (range 7–33 V)
Maximum current draw	200 mA
UWB frequency	range approx. 6–8.5 GHz
Protection degree (DWA)	IP65
Certificates and compliance	RED Directive (2014/53/EU)
Interface connectors	M12
Maximum rated current	≤ 25 m (when the anchor is fully visible)*
Distance measurement accuracy under static conditions	variations within ±10 cm
Digital outputs	6 PNP outputs
Configurability via CAN	CANopen parameters and digital output functions
Dimensions	102×140×50 mm (4.02×5.51×1.97 in)
Weight	350 g (0.77 lb)
Mounting	2 screws and/or 4 magnets
Compatibility	compatible with TJQ and TJE Powerbar® radio remote controls

** In certain installation and usage configurations, the system may also be adapted for applications requiring greater operating distances, subject to a specific assessment. For further information and to discuss the conditions of use, please contact the AUTEC Technical Service.*

Cert. UNI EN ISO 9001:2015 No. 50 100 2877 Design, manufacture and service of remote control systems for safety industrial application.

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