

Are you looking for detailed information?

Just enter the bold word in the search facility of our online catalogue (<http://catalog.weidmueller.com>) – you will then be presented with all the relevant product data at a glance. Let’s connect.

1. Bridge

Terminal blocks
W-Series
Device connection method
BLDF, BL-I/O, LMZF, LSF
Electronic housings
SK Demo CH20M
Patch distribution terminals
PRV

2. Navigation

Signal converter/isolator
ACT20P-Pro DC/DC
Signal conditioner
ACT20M
Switch-mode power supplies and diode modules
Connect Power PR0max

3. Dynamic positioning

I/O System
u-remote

4. Ship automation

IE cable and plug-in connectors
Industrial Ethernet
Serial/Ethernet converter
IE-CS-2TX
Managed switch
IE-SW-VL08MT
Distributor enclosure
Klippon POK
Device markers
MultiCard

5. Power distribution

Relay module
RCIKIT
Solid-state relays
TERMSERIES
Fused terminals
ZSI 6/WSI 6
Electronic housings
SK Demo CH20M

6. Drive and steering gear

Cutting tool
KT 45
Crimping tool
MTR 110
Stud terminals
WFF 120
High-power industrial plug-in connectors
RockStar HP 250
High-power PCB connectors
BVF

7. Deck machinery

Heavy duty connectors
RockStar IP68
Stainless steel housing
Klippon® STB
Stainless steel markers
WSM 10
IE service interfaces
FrontCom Micro

8. Maintenance

Universal signal conditioner
WAVE TTA
Thermal transfer printer
THM MMP printer
Markers
MultiMark
Insulation stripping tool
stripax® Ultimate
Crimping tool
PZ 6 Roto L
Cutting tool
KT 8



Weidmüller – Your partner in Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

You need safe shipping in rough conditions over long distances
Our solutions ensure reliable connections and signals on board
Let’s connect.

Shipbuilding



Your industrial connectivity partner for shipbuilding
Let’s connect.

Efficiency, reliability and operational safety are the highest priority for shipbuilding and ship operation. Our application-specific solutions meet these requirements with long-lived components that feature a high degree of automation. Let’s connect.

Increasing globalisation impacts rapidly growing transport of persons and goods between continents. More and more ships are being built and commissioned to handle this increasing transport, and these ships require ever greater degrees of automation and high-tech equipment. They face environmental factors such as salt water, fluctuating temperatures and humidity, as well as mechanical stress such as vibrations. These frequently adverse conditions and the functional security necessary for a trading ship place extreme demands on the mechanical and electronic components needed to operate a ship.

Weidmüller is well on top of this trend towards globalisation and the challenges it represents. Weidmüller supplies application expertise and is able to assist you to make the best solution for your application. We support you with application-oriented components from terminals with every type of connection to innovative systems for remote I/O’s. Our higher-level modular systems of components will make it possible to develop space-saving solutions for your automation-applications. With our solutions you may reduce the size of your cabinet. Moreover, you ensure long service life, low maintenance and a high degree of automation. In addition to individual components, Weidmüller supplies complex systems such as those used for dynamic positioning systems.

Well-versed employees throughout our global sales network are available around the clock to help you plan your applications, even on site. We'll work with you to choose the best products for your needs or to develop customized solutions for your applications if necessary. Feel free to contact us. Let’s connect.

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
32758 Detmold, Germany
T +49 5231 14-0
F +49 5231 14-292083
info@weidmueller.com
www.weidmueller.com

Your local Weidmüller partner can be found on our website:
www.weidmueller.com/countries

Made in Germany



Order number: 2458500000/04/2016/SMM2

Weidmüller

1.
Bridge

Robust and compact connection systems for saving space in shipboard electronics

There are many safety systems on board of a ship that are monitored from the bridge. Thus, it is crucial that the shipboard electronics take up as little space as possible.

Our PRV patch distributor is extremely compact and offers 4, 8 and 16 connection levels for high-density wiring. The BL-I/O and BLDF female headers are the ideal PCB connections for all control and display devices on the bridge: extremely space-saving in a 3.5 mm pitch and, thanks to the PUSH IN direct connection system, maintenance-free and vibration resistant. The integrated LEDs on the BL-I/O simplify functional checks and commissioning of the connected devices.



Terminal blocks, OMNIMATE device connection systems and electronic housings, patch distribution terminals (from left to right)

2.
Navigation

Strong failure safeguards thanks to uninterrupted power supply

Redundant systems guarantee powerful failure safeguards for navigational components and applications.

If a controller fails or the power supply fluctuates, our diode module automatically switches to the redundant power supply unit. The switch-mode power supplies of our PROmax series additionally ensure that the control circuits are supplied with a stable 24 V. Our ACT20M analogue signal converters convert the different sensor signals such as frequencies, temperatures, currents or voltages to normalised signals from 4 to 20 mA or from 0 to 10 V so that they can be reliably processed by the PLC. Our solution of ACT20M and PROmax power supplies is designed in order to save space in your application due to possible side-by-side mounting of the components.



Signal converter and isolator, switch-mode power supply and diode module (from left to right)

3.
Dynamic positioning

Flexible configuration combined with robust design

Dynamic positioning (DP) systems compensate for the external factors that come into force when weighing anchor on the high seas by precisely controlling the drive and the rudder.

Weidmüller offers a complete hardware solution infrastructure for this which transfers analogue and digital input and output signals. Our u-remote series contains an innovative and complete range of modules for different types of signals. u-remote will save space in your application and give you the possibility to hotswap modules. The plug-in connection level allows sensors and actuators to be connected with preassembled cables. This means improved time benefits, better handling and safe system wiring. Moreover, u-remote is equipped with smart diagnosis features.



I/O system u-remote (GL approval in 2017)

4.
Ship automation

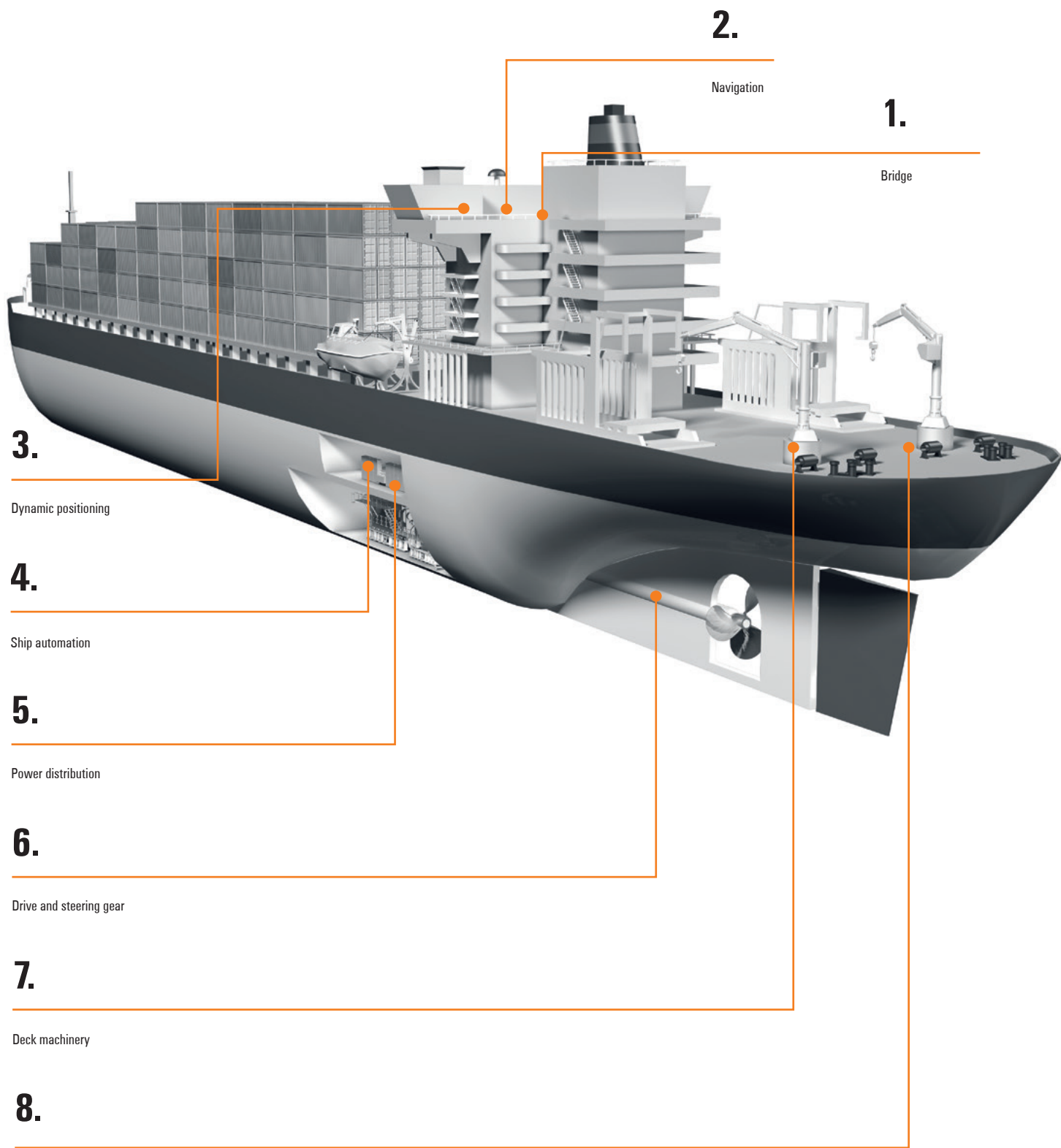
Uninterrupted communication with the ship's data network

In the engine control room, the auxiliary systems are automatically controlled and regulated. For unmanned operation, the system's status must be continuously and reliably determined and passed onto the control and monitoring systems.

Weidmüller covers this application with solutions for transmitting analogue and digital system information. They use our managed industrial Ethernet switches as the interfaces to the ship's redundant data network. Thanks to Power over Ethernet they can provide the field devices with power via the data lines. The field devices can be connected with RS-485/422 interfaces using our serial/Ethernet converter. You benefit from easy and quick on-board assembly as well as high reliability based on robustness and high protection level.



Industrial Ethernet cable, serial/Ethernet converter, managed switch, Industrial Ethernet plug-in connector, distributor housings, device markers (from left to right)



5.
Power distribution

Secure safety circuits ensure power distribution

Each safety circuit must be individually secured for reliable power distribution to the electric devices on board. Since shipbuilders often use high-dielectric-strength cables, the fuse terminals used must be able to cope with larger diameter cables without any problems.

Our ZSI 6 2x2.5 fuse terminals perfectly match the expectations towards this application thanks to their large entry funnels on the input side. They feature an integrated 5x20 fuse and cover the voltage range from 250 to 500 V. Our TERMSERIES relay modules with unique multi-voltage input from 24 to 230 V AC/DC reduce storage cost and increase off-shore flexibility. The bright status indicator reduces service and start-up time massively. Our OMNIMATE electronic housings are an ideal supplement – small housings in 6 mm disc format with up to 6 connections and simple power distribution using cross connectors.



Solid-state relays, relay module, fused terminals, and OMNIMATE electronic housing (from left to right)

6.
Drive and steering gear

Efficient energy distribution for challenging demands

The large energy requirements and strong vibration loading found in areas like the drive motors and the side thrusters place extremely high demands on the connection elements.

Our WFF stud terminals serve as the interface for energy distribution and are highly effective for use in the drive and steering gear motors. They are maintenance-free and resistant to vibration. A low voltage drop and the use of a self-extinguishing material with a V-0 (UL 94) flammability rating guarantee maximum safety. A pluggable alternative is our modular RockStar® HighPower connector system to connect generators with reverse polarity protection. RockStar® HighPower housings are manufactured from high-strength die-cast aluminium and offer perfect protection against harsh environmental conditions.



Cutting and crimping tool, stud terminals, high-power industrial plug-in connector and high-power PCB connectors (from left to right)

7.
Deck machinery

Fend off external factors

On-deck applications as well as their corresponding components are constantly exposed to the corrosive, salty atmosphere and must be appropriately protected.

Our high-quality stainless steel Klippon® TB distributor enclosures are electro-polished so that salt spray, dirt and metal dust practically roll right off. The enclosures are rated at the high protection degree IP67. Additionally, flexible locking options suit different customer requirements. Long-term identification is possible using our WSM stainless steel markers. Our markings on lines, cables, pipes and other components on deck are easily visible thanks to their clear embossing. They are resistant to heat, cold, corrosion, acids, chemicals or fire – quick installation is a matter of course.



Heavy-duty connector, stainless steel enclosure, stainless steel markers, Industrial Ethernet service interface (from left to right)

8.
Maintenance

Professional support for on-board installation

For safe operation on the high seas, it is absolutely necessary to rectify any faults which occur quickly and reliably.

Our WAVE TTA is an adjustable signal converter and limit switch that can accurately process a whole range of input signals from all common types of sensor. With our comprehensive range of tools, the installers on board have professional aids for on-board electrical installation (e.g. cable processing). Marking is easier than ever – the only printer you need for your marking tasks is our THM MMP. This compact printer enables continuous materials to be cut to any length – making your work considerably easier when it comes to cutting and assigning the respective labels. The printer edits markers and labels from the MultiMark family for most application.



Universal signal conditioner, cutting, crimping and stripping tools, thermal transfer printer, markers (from left to right)

Our solutions for shipbuilding and operation all boast high quality and compliance with standards

Weidmüller supplies tried-and-tested products developed and manufactured with the highest degree of quality assurance. Both our production facilities and our in-house laboratory are tested at regular intervals by independent institutions. Demanding certification audits attest to our compliance with quality management practices (based on ISO 9000 and subsequent standards).

