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# AUTOMATION

SMART CONTROL, AUTOMATION AND HMI SYSTEMS



## RELIABILITY, INNOVATION, QUALITY, INTEGRITY

### A MODERN PARTNER IN ELECTRONIC AND ELECTROMECHANICAL COMPONENTS

Omega is a leader in the distribution and production of electronic and electromechanical components, offering dedicated services to support and strengthen customer relationships.

Today, Omega is an international group in steady growth, with branches across Europe and a structured plan for further expansion. It positions itself as a modern, reliable partner for the distribution of electrical and electromechanical components.



## OUR PARTNERS: AN ADDED VALUE

### CHOSEN THROUGH YEARS OF EXPERIENCE, OUR PARTNERS ENSURE THE HIGHEST STANDARDS.

With a strong presence across Mediterranean Europe, Omega covers all major markets and application areas, maintaining a direct and constant relationship with its customers - always focused on maximum efficiency.



## PLC/CONTROLLERS

### FC6A PLUS



Ideal for both large-size machines and small size production lines  
High performance  
Easy programming features

### SX8R SERIES



Wide range of I/O modules (48 models) to build a highly efficient and suitable remote I/O system

### FT1J SERIES



4.3 inch all-in-one automation solution  
Combining a controller with an operator interface

### FT2J SERIES



7 inch PLC / touchscreen combination  
22 I/O expandable to 30  
Embedded ethernet and serial communications

## OPERATOR INTERFACES

### HG5G SERIES



15" - Super bright  
High resolution display, high performance  
Visible from a distance and in well-lit surroundings  
Resolution: 1024 (W) × 728 (H)  
View angle: right and left  
80°, up 60°, down 80°

### HG4G SERIES



12.1" - Compact housing  
Versatile interface  
High performance operator interface with multimedia functions

### HG2J SERIES



7" - High performance and feature rich touchscreen  
Using PCAP touch technology, it can be used even with gloves  
UV, scratch, water and chemicals resistant  
The HG2J is IoT compatible

### HG1J SERIES



4.3" - Compact, rugged and IoT  
Ready operator interface  
Bright TFT color display  
Durable PCAP touchscreen and remote monitoring

## LASER SCANNER

### SE2L SERIES



The smallest Safety Laser Scanner in the world

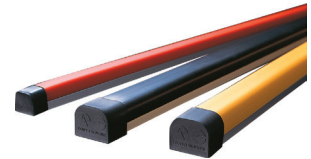
Master & slave connectivity (Up to 4 devices and ethernet connectivity)

Superior resistance to dust, uv radiation and splashes

Up to four SE2L can be connected together which is ideal for detection of four sides on AGVs

## PRESSURE-SENSITIVE SENSORS

### SE2L SERIES



All edge switches can be selected to be safety edge switches by using a doubled termination (4-wire system), allowing machine builders to adapt the level of protection as safety requirements evolve

When combined with the HR6S-AK safety relay module, the Safety Edge Switch achieves EC type certification

Certified by TÜV NORD

Applicable standards: EN ISO13856-2:2013, EN 12978:2003+A1:2009

Functional Safety: Category 3, PLd (ISO13849-1)

## REMOTE CONTROL PENDANTS

### HT4P SERIES



A tablet holder that enables any industrial tablet to provide operation safety

Wired LAN connection

Mechanical switches or custom products like joysticks

### HT3P SERIES



Adaptable tablet holder, that can guarantee foolproof safety

Incorporating HE5B enabling switch and a XA1E e-stop switch

### HG1P SERIES



Hand-held operator interface with a 4.3" touch screen

Simple configuration using the IDEC Automation  
Organiser WindOINV4 programming software and  
Integrated Ethernet and Serial (RS232 & RS485)  
communication

## ENABLING SWITCHES & GRIP SWITCHES

### HE2B SERIES



Two 3-position contacts - 0, 1 or 2 extra monitoring contacts  
70 x 12.2 mm + 2 x Ø 3.2 holes panel cut-out  
IP40 (no cap.) IP65 (with cap)  
Actuating force: pos. 1>2 4N, pos. 2>3 30N  
Black, yellow or grey - Approved

### HE3B SERIES



Two 3-position contacts - 0 extra monitoring contacts  
Ø 16.2 mm  
+ 1 x Ø 3.2 hole panel cut-out  
IP40 (no cap.) IP65 (with cap)  
Actuating force: pos. 1>2 ~4N, pos. 2>3 ~20N  
Black, yellow or grey - Approved

### HE5B SERIES



Two 3-position contacts  
0 extra monitoring contacts  
Ø 16.2 mm panel cut-out  
IP65 (with cap)  
Actuating force: pos. 1>2 3N, pos. 2>3 17N  
Black, yellow or grey  
Approved

### HE6B SERIES



Two 3-position contacts  
1 or 2 extra monitoring contacts  
29.4 x 16.2 mm + 2 x Ø 3.2 holes panel cut-out  
IP65 (with cap)  
Actuating force: pos. 1>2 4N, pos. 2>3 17N  
Black and yellow  
Approved

### HE1G-L SERIES



Palm-grip  
Extra monitoring contacts: optional, 1  
E-stop: optional, 2NC  
Switch: optional, 1  
Interlock switches: HS5 - Cable gland included  
No handstrap  
Optional mounting bracket HE9Z-GH1 - Approved

### HE2G SERIES



Palm-grip  
Extra monitoring contacts: 1 - E-stop: optional, 2NC  
Switch: optional, max 2 switches, DPDT  
Pilot light: optional, green  
Key selector: optional, 2 pos. DPDT  
Interlock switches: HS5  
Cable gland included  
Optional handstrap HG9Z-PS1 - Approved

### HE9Z SERIES



Thumb-grip  
Cable gland included  
No handstrap  
Optional mounting bracket HE9Z-GH1  
Approved

## E-STOP SWITCHES

### X6 SERIES



Ø16mm panel hole  
 Ø30mm and Ø40mm operator sizes  
 With safety break technology  
 Up to 2 contacts (NC:1,2 / NO:0)  
 Solder/tab, solder terminals  
 Approved  
 Push to lock, turn or pull to reset  
 Smooth head

### XA AND XW UNIBODY SERIES



Ø16mm (XA) and Ø22mm (XW) panel hole  
 Ø29mm operator size  
 With safety break technology  
 Up to 3 contacts (NC 1 or 2 / NO 1)  
 Solder/tab, solder terminals  
 Illuminated, color-changing  
 Push to lock, turn or pull to reset  
 Approved

### XA SERIES



Ø16mm panel hole  
 Ø29mm and Ø40mm operator sizes  
 With safety break technology  
 Up to 4 contacts (NC:1,2,3,4 / NO:0,1)  
 Solder, PCB terminals  
 Approved  
 Push to lock, turn or pull to reset  
 Also illuminated

### YW SERIES



Ø22mm panel hole  
 Ø40mm operator size  
 Up to 2 (ill.), 3 (non-ill.) contacts (NC:1,2,3 - NO:0,1)  
 Screw, push-in terminals  
 Approved  
 Push to lock, turn or pull to reset

### HW SERIES



Ø22mm panel hole  
 Ø29mm, Ø40mm and Ø60mm operator sizes  
 Up to 4 contacts (NC: 1,2 / NO: 0,1,2)  
 Screw, push-in terminals  
 Push to lock, pull, turn or key to reset  
 Approved

### XW SERIES



Ø22mm panel hole  
 Ø38mm, Ø40mm and Ø60mm operator sizes  
 Up to 4 contacts (NC: 1,2,3,4 / NO: 0,1)  
 Screw, solder and PCB terminals  
 Push to lock, turn or pull to reset  
 Illuminated (Green visual indicator)  
 Approved

### XNIE SERIES



Ø30mm panel hole  
 Ø40mm and Ø60mm operator sizes  
 With safety break technology  
 Up to 4 contacts (NC: 1,2,3,4 / NO: 0,1)  
 Screw terminals  
 Push to lock, turn or pull to reset  
 Illuminated  
 Approved

### XN4E SERIES



Ø30mm panel hole  
 Ø44mm operator size  
 Up to 4 contacts (NC: 1, 2, 3, 4) / NO: 0,1  
 Screw terminals  
 Push to lock, turn to reset  
 Illuminated  
 Built in padlock  
 Approved

**EU2B SERIES**

Ø16mm panel hole  
 Ø40mm operator size  
 Up to 3 contacts (NC: 1,2,3 / NO: 0,1)  
 Screw terminals  
 Push to lock, turn or pull to reset  
 ATEX  
 Hazardous locations  
 Approved

**ES SERIES**

Ø22mm panel hole  
 Ø34mm operator size  
 Metal e-stop  
 IP65, IP67 and IP69K  
 Compliant with EN 60947-5-1  
 IK10 impact resistance, with no axis deformation even exposed to major shocks

**EC COMPACT SERIES**

Ø22mm  
 IP65  
 Only 18.7mm of behind panel depth  
 Approved according to EN 60947-5-1, EN 60947-5-5

**ES FOR PCB SERIES**

Ø22mm - 2 poles  
 IP65  
 Resist to vibration  
 UL qualified - PCB mounting  
 Approved according to EN 60947-5-1, EN 60947-5-5

**A01 SERIES**

Ø16mm  
 IP65  
 Back panel sealing IP40  
 Locked/unlocked status indicator  
 Approved according to EN 60947-5-5

**RFID TAG READERS****KW2D**

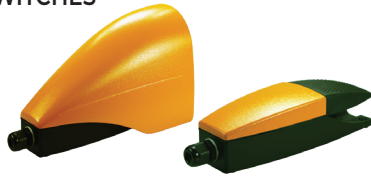
Compatible with contactless cards such as employee IDs or Keyfob tags  
 Connection: Ethernet port  
 Communication protocols: Modbus TCP  
 Planned: Ethernet/IP and CC-Link

**WB1F SERIES**

Code scanner  
 1D CCD scanner with convenient modes, such as test mode  
 Compact and can be installed on small equipment

## FOOTSWITCHES

### HEAVY-DUTY FOOTSWITCHES



Available in different colours  
IPX7 protection rating  
Also available in versions with potentiometer

### FOOTSWITCHES



Wide range of colours and switching options  
Available in multipedal versions  
IPX2 and IPX7 protection rating – IPX8 on request  
Also available with Bluetooth® connectivity

### FOOT-OPERATED ELECTRONIC POTENTIOMETERS



Variable voltage output  
Solid-state optical sensor  
Cost-effective solution  
Custom colours and logos available  
IPX2 protection rating

### SAFETY GUARDS



Mild steel construction  
Black or grey powder-coated finish  
Available in single or double versions  
Ergonomic shaped handle

### HAND CONTROLS



Ergonomic design  
Lightweight and easy to handle  
Available in electric, pneumatic and infrared versions  
Up to 6 selectable buttons

### 6240 SINGLE PEDAL FOOTSWITCH



Available with aluminium or plastic base plates tough flexible cover  
Degree of protection EN 60529 IP67 (IP68 upon request)  
Connection method stripped cable cores or connector of your choice

## INDUSTRIAL CONNECTORS

### BLUE LINE MODULAR CONNECTORS



Manual or automatic connection  
Plastic or aluminum body  
10.000 mating cycles  
High contact density  
Types: signal, power, current, coaxial, compressed air, fluids, optic fiber, datas, PCB

### ELECTRICAL CONTACTS



Versatile contact technologies  
Reliability and durability - up to 1 million mating cycles  
Current-carrying capacity of up 2,400A  
Stamping technology for customer-specific high volume solutions  
High vibration and shock resistance  
Low, stable contact resistance

## Ø8 TO Ø16 SWITCHES

## A8 SERIES



Ø8mm - Up to 1 pole  
 IP40 - Approved  
 Illuminated  
 Solder terminals  
 Monobloc contact  
 Light duty (up to 1A)

## A1 SERIES



Ø10mm - Up to 1 pole  
 IP40 - Approved  
 Illuminated  
 Solder terminals  
 Monocloc contact  
 Light duty (up to 1A)

## A2 SERIES



Ø12mm - Up to 2 poles  
 IP65 or IP40 - Approved  
 Illuminated  
 Solder terminals  
 Monobloc contact  
 Light duty (up to 1A)

## A6 SERIES



Ø16mm - Up to 2 poles  
 IP65 or IP40 - Approved  
 Also illuminated  
 Solder/tab or PCB terminals  
 Monobloc contact  
 Light duty (up to 1A)

## LB SERIES



Ø16mm - Up to 3 poles  
 IP65 - Approved  
 Illuminated  
 Solder/tab or PCB terminals  
 Separable contact blocks  
 Light duty (gold/silver contacts, up to 5A)

## Ø18 TO Ø22 SWITCHES

## LB FLUSH SERIES



Ø18mm - Up to 3 poles  
 IP65 - Approved  
 Illuminated  
 Solder/tab or PCB terminals  
 Separable contact blocks  
 Light duty (gold/silver contacts, up to 5A)

## MW SERIES



Ø18mm - Up to 2 poles  
 IP65, IP66 - Approved  
 Solder/tab or screw terminals  
 Monocloc contact  
 Heavy duty (up to 10A)

## CW SERIES



Ø22mm - Up to 6 poles  
IP65, IP67 - Approved  
Also Illuminated  
Screw or push-in terminals  
Modular contact  
Heavy duty (up to 10A)

## LBW SERIES



Ø22mm - Up to 3 poles  
IP65 - Approved  
Solder/tab or PCB terminals  
Separable contact blocks  
Light duty (gold/silver contacts, up to 5A)

## LW SERIES



Ø22mm - Up to 3 poles  
IP65 - Approved  
Illuminated  
Screw/tab, PCB or screw terminals  
Separable contact blocks  
Light duty (gold/silver contacts, up to 5A)

## YW SERIES



Ø22mm - Up to 6 poles  
IP65 - Approved  
Also illuminated  
Screw or push-in terminals  
Separable contact blocks  
Modular contact  
Heavy duty (up to 10A)

## HW7D SERIES



Ø22mm - Up to 4 poles  
IP65 - Approved  
Illuminated  
Screw, push-in terminals  
Modular contact  
Heavy duty (up to 10A)

## HW1R SERIES



Ø22mm - Up to 4 poles  
IP65 - Approved  
Screw or push-in terminals  
Modular contact  
Heavy duty (up to 10A)

## HW1M SERIES



Ø22mm - Up to 4 poles  
IP65 - Approved  
Screw or push-in terminals  
Modular contact  
Heavy duty (up to 10A)

## Ø25 TO Ø30 SWITCHES

### TW SERIES



Ø22, Ø25 and Ø30mm - Up to 4 poles

IP65 - Approved

Illuminated

Screw

Modular contact

Heavy duty (up to 10A)

## INTERLOCK SWITCHES

### HS6E/6B SERIES



Small and thinnest solenoid interlock switch with five poles and solenoid. HS6B: World-class compactness with three poles of contacts

### HS5D SERIES



Compact and robust miniature safety interlocks with Plastic or stainless steel heads  
Design includes a fail safe tamper detection head

### HS LOCKING SWITCHES



Range of safety locking switches, ranging from 500N to the new HSIT 5000N locking switch

### HS7A SWITCHES



Compact size and easy positioning

### HS3A SWITCHES

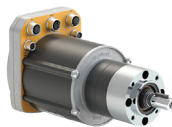


RFID non-contact interlock switch

Category 4 and PLe compliant

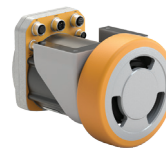
## SAFETY WHEEL DRIVES

### SWD CORE



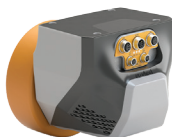
Gear motor  
Peak torque: 37Nm  
Nominal power: 185W  
Speed range: 0 to 130rpm

### SWD 125



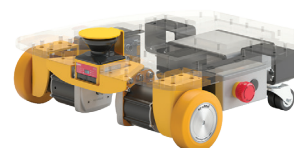
Medium duty wheel drive - Ø125mm  
Peak pushing eff.: 20daN, 500Kg moved  
Max vertical load: 250Kg  
Speed range: 0 to 11km/h

### SWD 150



Heavy duty wheel drive  
Ø150mm  
Peak pushing effort: 60daN, 1500Kg moved  
Max vertical load: 700Kg  
Speed range: 0 to 3.7km/h

### SWD STARTER KIT



Development kit for AGV and AMR  
Two SWD Safety Wheel Drives  
One SE2L safety laser scanner  
An industrial PC with ROS middleware or ez-Way navigation software  
Safety features according to ISO 3691-4

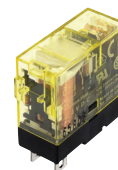
## RELAYS

### RV8H SERIES



Ultra-slim  
6 mm-wide interface relays  
For high density mounting  
Screw and spring clamp terminals  
Release lever for easy relay locking and removal

### RJ SERIES



Compact and rugged power relays  
Large contact ratings

### RU SERIES



Full featured  
Environment-friendly  
2 Pole (10 A), 4 Pole (6 A) relays  
No lead or cadmium used

### RL SERIES



Single pole, rated at 30A  
Double pole rated at 25A  
Ensures stable operation even when voltage drops momentarily

## RF2 SERIES



Force guided relay  
2 poles  
Reduce cost and installation space  
Two terminal styles  
Socket mounting and PC board mounting

## CIM1 SERIES



1 pole  
Changeover contact  
Contact material: AgNi  
Max. 16 A @ 250 V AC / 30 V DC  
Timing functions: E, A, K, N, B1, S, LS, B, W

## SOCKETS

### SJ SERIES



Slim and space-saving sockets with marking plate for RJ and RF2

### RJ SERIES



DIN-rail mount: standard, fingersafe, slim, spring-clamp  
panel mount (solder, wire-wrap) and PC board mount

## TERMINALS

### PUSH-IN TERMINALS



One step wiring for quick and highly reliable connection  
Compatible with PS3V power supply and SU/SJ relays  
sockets

## LED LIGHTING AND SIGNALLING

## LD6A SERIES



60V - op. voltage 24VAC/DC  
 20 to 30mA per Tier  
 LED illumination  
 Flashing: yes  
 Noise: 70 to 90dB - 5 mounting options  
 Wire UL1007 - From IP23 to IP65 sealing options  
 Approved

## HWIZ SERIES



30V - 18mA (24VDC), 8mA (12VDC)  
 LED illumination  
 Flashing: yes - Noise: 90dB min. at 0.1m (24V)/84dB min at 0.1m (12V) - 1 mounting option  
 Bushing diam. 22mm - Push-in terminals  
 From IP40 to IP65 sealing options - Approved

## LHID SERIES



32V - 24VAC/DC op. voltage - 17mA  
 LED illumination  
 1 mounting option  
 Wire UL20276  
 IP67 - Approved

## HWIP-5Q4G SERIES



24VAC/DC op. voltage - 15mA  
 LED illumination  
 1 mounting option  
 Bushing diam. 22mm  
 Screw terminals  
 IP65 - Approved

## LF2B SERIES



IP65 - 6.500K  
 Between 2.2W & 15.9W - 12/24VDC, 100 to 240VAC -  
 Between 10lx & 1,350lx  
 Surface mounting  
 Clear and white cover  
 Cool light color

## LFID-C SERIES



IP65, IP67F, IP69K - 5.700K - 4.6W - 24VDC - 180lx  
 Surface mounting  
 Cool light color  
 Clear reinforced glass

## LF3D-SB SERIES



IP65, IP67, IP67G, IP69K - 5.700K - 9.2W - 24VDC - 1800 lx  
 (standard distr.) 1000 lx (diffused distr.)  
 Surface mounting  
 Clear, diffused and reinforced glass  
 Cool light color  
 Dimmable

## LF3D-FB SERIES



IP65, IP67, IP67G - 5.700K - 9.2W - 24VDC - 1800lx  
 (standard distr.) 1000lx (diffused distr.)  
 Recess mounting  
 Clear, diffused and reinforced glass  
 Cool loght color  
 Dimmable

# A WORLD OF APPLICATIONS



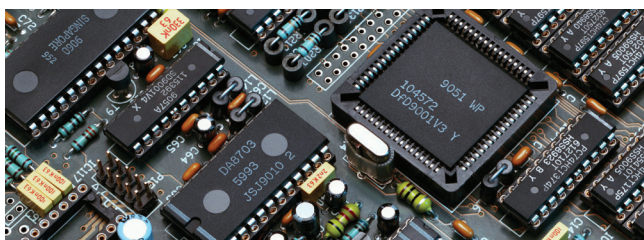
## AUTOMATION

- Control and management of industrial production processes



## DEFENSE

- Military vehicles
- Communication systems
- Controllers



## ELECTRONIC AND ELECTRICITY

- PBC
- Low and Medium Voltage
- Electric panels



## ELECTRICAL APPLIANCES

- Large and small appliances
- Industrial appliances
- Professional cooking



## VEHICLES

- Automotive
- Transports
- Agriculture
- Marine



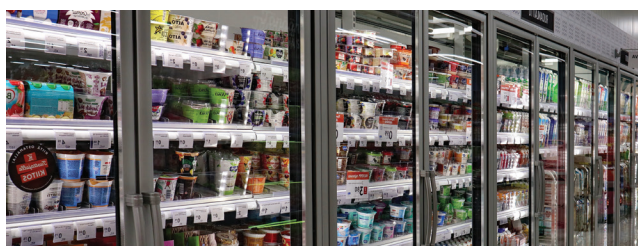
## GREEN ENERGY

- Photovoltaic
- Renewable
- Electric Vehicles
- Storage



## LIGHTING

- Industrial plants
- Design



## HVAC

- Refrigerated counters
- Hot/Cold systems
- Heating

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