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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

HK 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 HC9Z-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, BI, S, LS, B, W

SOCKETS

SJ AND RJ SERIES



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, wirewrap) and PC board mount

TERMINALS

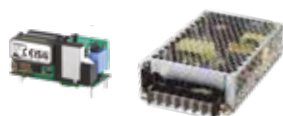
PUSH-IN TERMINALS



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

POWER SUPPLIES

AC/DC POWER SUPPLIES



Power range: 10 W – 10 kW
Housing types: enclosed, open frame, PCB mount, chassis
Single or multiple output
Cooling types: natural/forced convection or conduction

DC/DC POWER SUPPLIES



Power range: 1 W – 2.5 kW
Housing types: enclosed, open frame, PCB mount, chassis
Single or multiple output
Cooling types: natural/forced convection or conduction

AC/DC DIN-RAIL POWER SUPPLIES



Power range: 60 W – 960 W
Single or three-phase input
Screw, spring, push-in installation type
Output Voltage: 12V - 24V - 48V

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



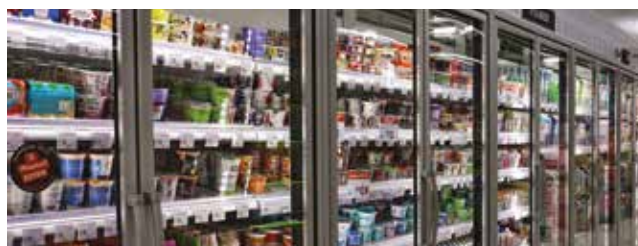
GREEN ENERGY

- Photovoltaic
- Renewable
- Electric Vehicles
- Storage



LIGHTING

- Industrial plants
- Design



HVAC

- Refrigerated counters
- Hot/Cold systems
- Heating

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