

Products designed for harsh washdown environments

Stainless steel and IP67/IP69K rated products for specialty applications



- Engineered for sanitary, hygienic and aseptic environments
- Solutions for food, beverage, pharmaceutical and life sciences applications
- Conforms to FDA and USDA, Ecolab and IEC specifications

Omron delivers the perfect mix of harsh washdown solutions ensuring product and operations integrity

There is increasing scrutiny being placed on product integrity issues. Public, media and regulatory attention has focused on the sanitary practices of production facilities, with almost no industry being exempt. The potential costs of recalls, fines and long-term brand damage is compelling producers to take additional steps to ensure consumer wellbeing.

Intensified washdown practices including greater frequency with higher wash pressures and temperatures and more concentrated chemical applications call for equipment and solutions specifically designed to withstand these types of processes.

Omron offers 80+ years of expertise and experience as the single source supplier of industrial automation solutions for harsh washdown environments and specialty applications.

From sensing and vision to industrial components, robotics, safety and even connectivity, our solutions meet today's regulatory requirements and protect both consumers and brand reputation.

Serving your industry

Omron has the preferred product lineup for leading companies in meat/poultry and seafood processing, dairy, ice cream, frozen foods, fruits and vegetables, beverages, personal care, pharmaceutical, medical device manufacturing, clinical/in vitro, and many more.

Stay ahead with Omron

- More efficient maintenance and cleaning
- Reduces downtime
- Increases OEE
- Decreases possibility of product recalls
- Maintains code compliance



FRESH PRODUCE



MEAT PROCESSING



PHARMACEUTICALS



DAIRY PROCESSING

Sensing | Proximity Sensors

E2E NEXT

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- Four times the sensing range prevents unexpected downtime and ensures operation in environments with dust, water and oil with ratings of IP67/IP69K/IP67G in stainless steel and brass housings.

E2A

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- Cylindrical brass housing features IP67 and IP69K for the highest water protection, high vibration and temperature change resistance and high electromagnetic noise immunity.

E2A3

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- Triple sensing distance for flush mounting requirements with stainless steel and brass housing as well as IP67 and IP69K for enhanced protection from harsh environments.

E2EH

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- Extreme heat (up to 120°C) and detergent resistant inductive sensors in cylindrical stainless steel housing provide reliable metal object or machine part detection.

Connector Cordsets

Y92E-SERIES

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- Compatible with Omron's chemical resistant photoelectric and inductive proximity sensors the series offers models rated IP67/IP68/IP69K for a complete washdown and detergent resistant sensing solution.

IO-Link Connectivity

GX-ILM IO-LINK

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- IO-Link master unit with IP67 protection for watery and dusty environments.

Photoelectric Sensors

E3AS-F / E3AS-L

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E3AS-F

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E3AS-L



- Laser welded stainless steel construction enables IP69K and IP67G ratings and Ecolab certification for detergent resistance while an antifouling coating prevents build-up on the lens from water droplets, oil and dust.

E3FC

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- Compact, hygienic sensor in an M18 form factor designed with high grade, hermetically sealed stainless steel housing for high temperature and high pressure cleaning applications and proven to resist corrosion from industrial detergents and disinfectants.

E3S-DB

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- Reliable detection of transparent objects in harsh environments, the construction is IP69K compliant and can withstand high temperatures and high water pressures and is Ecolab certified for food and beverage applications.

E3FA/E3RA / E3FB/E3RB

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E3FA

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E3FB



- Reliable, stable sensing in a robust M18 barrel housing rated at IP67 and IP69K that can withstand high-pressure cleaning for demanding applications.

E3ZM / E3ZM-B / E3ZM-C / E3ZM-V

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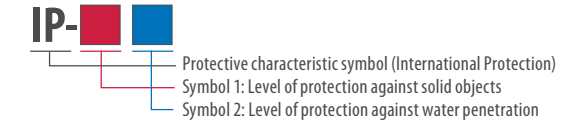
- High-temperature, high pressure square sensor designed with food grade 316L stainless steel housing to resist alkaline and acid-based corrosive chemical detergents commonly found in IP69K compliant environments.

IP Rating Reference Guide

IEC (International Electrotechnical Commission)

Standards (IEC60529:2001)

Level		Amount of protection
0		No protection.
1		Solid objects 50 mm or larger in diameter (hand, etc.) do not penetrate.
2		Solid objects 12.5 mm or larger in diameter do not penetrate.
3		Wires or other solid objects 2.5 mm or larger in diameter do not penetrate.
4		Wires or other solid objects 1 mm or larger in diameter do not penetrate.
5		An amount of dust sufficient to interfere with normal operation of the device or create a safety problem does not enter.
6		Dust does not enter.



Level		Amount of protection	Test procedure
0		No special protection. No protection against water penetration.	No test.
1		Suffers no damaging effects from vertically dripping water.	Placed under vertically dripping water from a drip-ping tester for 10 minutes.
2		Suffers no damaging effects from water dripping no more than 15° out of plumb.	Placed at an inclination of 15° under dripping water from a dripping tester for 10 minutes (2.5 minutes in each direction).
3		Suffers no damaging effects from water sprayed from an angle up to 60° from plumb.	Using the tester at right, the device is sprayed from each side up to an angle of 60° from plumb for 10 minutes.
4		Suffers no damaging effects from water sprayed from all directions.	Using the tester at right, the device is sprayed from all directions for 10 minutes.
5		Suffers no damaging effects from and direct jet spray from all directions.	Using the tester at right, each square meter of the case is sprayed from all directions for 1 minute, for a total of at least 3 minutes.
6		Suffers no damaging effects from strong and direct jet spray from all directions.	Using the tester at right, each square meter of the case is sprayed from all directions for 1 minute, for a total of at least 3 minutes.
7		Water does not penetrate when the device is submerged for a specified amount of time at a specified pressure.	The device is submerged for 10 minutes at depth of 1 m in water (if the height of the device is less than 850 mm).
8		The device can be used on a regular basis under water.	Decided by the manufacturer and the user of the device.
9K		Protected against high temperature.	High pressure water and steam.

IP69K according to DIN 40050-9

The IP69K test according to DIN 40050-9 is intended to simulate high pressure / steam cleaning. During the test 14 to 16 l/min water at 80°C is sprayed onto the sensor from different angles with 8 to 10 MPa (80 to 100 bar). The nozzle is held 10 to 15 cm from the tested device at angles shown for 30 seconds each. The test device sits on a turntable that rotates once every 12 s (5 rpm). The sensor may not suffer any damaging effects from high pressure water in appearance and functionality.

Control | Industrial PC (IPC)

NYP

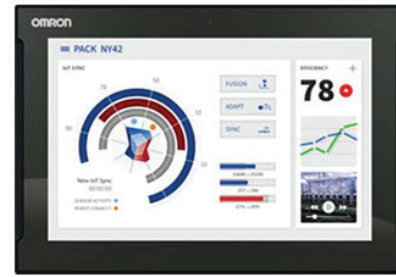


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- Rugged package of industrial PC and 19" monitor with FDA-approved nickel-plated bezel for mounting on panel or on machine in harsh environments.

Industrial PC Monitor

NYM



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- 19" display and touch interface with an FDA-approved nickel-plated bezel for washdown reliability in industrial environments.

Rope Pull Emergency Stop Switches

ER6022-SS



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- 316 stainless steel die-cast housing and hardware rated IP67 with NEMA 6 enclosure withstands harsh washdowns and cold applications to -40°C.

Emergency Stop Pushbutton Switches

A22NE-P / A22NE-PD



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- IP69K rated with rubber cover resists washdown temperatures of up to 80°C and high pressure sprays from 80 to 100 BAR in environments that require frequent, washdowns.

Safety | Door Switches

D40R



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- RFID non-contact switch is IP69K rated for high-pressure clean-in-place washdowns and resists most chemicals used in industrial environments.

D40P



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- Hall-effect coded magnet non-contact switch operates behind stainless steel fittings with IP69K models suitable for the hygienic demands of high-pressure cleaning and CIP/SIP processes.

Auto-ID | RFID Readers and Tags

V680S



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- Compliant with worldwide radio regulations and durable, IP67 rated to withstand high temperature cleanings without dismantling makes this system ideal for harsh environments.

V680-SERIES RF TAGS



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- Optimally designed to use with V680S series of readers/writers and molded by PPS resin for IP68 superior oil and chemical resistance and clean-in-place washdowns.

D40-ML



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- Clean-in-place magnetic locking switch with RFID housed in stainless steel and IP69K rated for industrial machine guarding applications.

Light Curtains

F3SG-SRA / F3SG-SRB



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- Certified to global safety standards and built with a robust seal to achieve an IP67G rating for water and oil resistance along with an IP69K model (coming soon) for high-pressure washdown applications.

Smart Cameras

FHV7



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- Rugged design intended for harsh environments with high vibration and exposure to regular washdowns with IP67 waterproof housing and connector options.

MICROHAWK F430



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- Inspection, code and character reading all in one compact system and IP67 rated for powerful performance in wet environments.

Barcode Readers

MICROHAWK V430



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- Ultra compact, lightweight and rated IP67 to solve challenging barcode reading applications even in tough environments.

HS-360X



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- Ultra-rugged direct park mark (DPM) handheld wired or wireless scanner with IP67 rated enclosure is resistant to many industrial fluids and chemicals.

Vision Systems

FH



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- Camera enclosures for washdown environments available.

Robotics | Parallel Robots

QUATTRO™



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- Robust components and design make this robot USDA-accepted for meat and poultry processing as well as primary food handling and the only 4-arm model in the world which operates with superior speed and stability.

SYSMAC DELTA



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- Ideal for the food and beverage, pharmaceutical and healthcare industries the IP69K rated pick-and-place system is made with stainless steel for washdown environments.



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