Honeywell

MICRO SWITCH™ Limit Switches Line Guide

Limitless leadership. Available with a variety of actuators, electrical specifications, terminations, circuitries and sealing ratings, Honeywell Sensing and Control's (S&C) limit switches offer superior flexibility and performance. These precision snap-action switches — sealed in rugged housings — are used to detect presence or absence in areas where physical contact is allowed.

And Honeywell S&C delivers all the benefits your applications demand:

- Reliability, repeatability, accuracy
- Impressive breadth of product offerings
- Tested-tough, for industrial machinery
- Supreme performance, through superior application understanding
- Withstanding shock, vibration, washdowns and outdoor environments

FEATURES

GLOBAL LIMIT SWITCHES

GLA Series.

Features: Metal housings for rugged applications • Galvanically isolated contacts for controlling separate circuits • Wide variety of actuators and circuitry options for increased flexibility • International conduit sizes available for global applications • Direct-acting NC contacts designed to ensure opening when actuated • 2NO version available • Gold contacts optional for low-energy switching • EN50041 mounting pattern

Benefits: Specifically designed for world-wide applications and are supported by Honeywell global resources for sale and after sale service. Applications include machine tools, material handling equipment, packaging machinery, textile machinery, construction machinery and equipment, vehicles and lift trucks.

GLS Miniature (GLD, GLC, GLE) Series.

Features: GLC metal housings or GLD plastic housings for design versatility (metal = better sealing, unaffected by UV light) • Galvanically isolated contacts for controlling two separate circuits • Direct-acting NC contacts deigned to ensure opening when actuated • Gold contacts optional for low-energy switching • 2NO version available • Wide variety of actuators and circuitry options for increased flexibility • International conduit sizes available for global applications • EN50047 mounting pattern

Benefits: Specifically designed for world-wide applications and are supported by Honeywell global resources for sale and after sale service. Applications include machine tools, material handling equipment, packaging machinery, textile machinery, construction machinery and equipment, vehicles and lift trucks.

91MCE Series.

Features: Direct-acting contacts are designed to open NC contacts when actuated • Slow-action and snap-action circuitry offers design flexibility • Nine actuator styles offer design flexibility • Pre-leaded cable and M12 connector options • Side exit (standard) and bottom exit connection options

Benefits: Miniature package size fits in applications where space is limited. Can be gang mounted for applications requiring more than two switch circuits. The 20 mm mounting pattern meets most globally accepted mounting standards. Applications include machine equipment, material handling, aerial lifts, forklifts, and off-road and outdoor equipment.

SZL-VL Series.

Features: Gold plated silver contacts standard • Integral cord grip saves time and cost • Rugged metal base with durable plastic cover • Two circuit break (1NO/1NC) • Sealed to IP64

Benefits: Designed for applications of small mounting space. A special pre-molded flexible cable gland allows for fast and simple wiring termination. Applications include machine tools, material handling, food processing machinery, conveyors, and packaging machinery.

continued on page 5

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MICRO SWITCH™ Limit Switches.
Honeywell S&C: Application-proven limit switches for any need:

Global switches meet IEC standards for worldwide acceptance — for injection molding, PLC interface, machine tooling, elevators and escalators, gaming, packaging and textile, food and beverage, industrial doors, scissor and platform lifts and electronic assembly.

Heavy-duty switches offer a rugged, die-cast body — epoxy-coated — with multiple mounting and actuator options. Low- and high-temp construction and factory-sealed, pre-wired versions are also available. Applications include food and beverage machinery, shipboard and dockside, caustic waste handling, power generating plants, pulp and paper, welding, automotive machine tools and conveyors.

Medium-duty switches feature a small metal or plastic package size. Applications include material handling, printing machinery, machine tools, agricultural equipment, overhead cranes and hoists, packaging and earthmoving, stamping, conveyors, surface transportation and textile, and printing machinery.

Global Limit Switches	GLA Series	GLS Miniature Series (GLD, GLC, GLE)
Housing type	EN 50041	EN50041/47
Sealing	IP67; NEMA 1, 3, 4, 12, 13	IP66/IP67; metal: NEMA 1, 4, 12, 13 plastic: NEMA 1, 4X, 12, 13 (Indoor use only)
Housing material	zinc die-cast	plastic, zinc die-cast
Actuators/levers	side rotary, top plunger, top roller, wobble	side rotary, top plunger, top roller, wobble
Termination	0.5 in 14NPT conduit, 20 mm, PG13.5	0.5 in - 14NPT conduit, 20 mm, PG13.5
Approvals	UL, CSA, CE, CCC	UL, CSA, CE, CCC
Circuitry	SPDT snap action DB, SPDT slow action BBM/MBB, DPDT snap action DB, 2NO and 2NC	GLC/GLD: SPDT snap action DB; SPDT slow action BBM/MBB; 2NO; 2NO GLE: SPDT snap action DB, SPDT slow action BBM/MBB, DPDT snap action DB, 2NO/2NC
Contacts	silver, gold	silver, gold
Amp rating	10 A (thermal)	10 A (thermal)

Global Limit Switches	91MCE Series	SZL-VL Series
Housing type	–	–
Sealing	IP67, NEMA 1, 4, 12, 13	IP64
Housing material	zinc die-cast	zinc die-cast/plastic
Actuators/levers	side rotary, top/roller plunger, panel mount actuators	side rotary, top plunger, wobble, wobble cat whisker
Termination	4-pin M12 connector, side exit cable, bottom exit cable	cable gland
Approvals	cULus, CE, CCC	UL, cUL, CE
Circuitry	1NO 1NC DO snap action, 1NC 1NO slow action: BBM	1NC 1NO SPDT; double break
Contacts	silver	gold-plated silver
Amp rating	10 A (thermal)	5.0 A

Heavy-Duty Limit Switches

	HDLS Standard Series	HDLS Stainless Steel Series	HDLS Fully Potted Series
Housing type	HDLS plug-in	stainless steel non plug-in	HDLS non plug-in
Sealing	NEMA 1, 3, 4, 4X, 6, 6P, 12, 13	NEMA 1, 3, 3R, 4, 4X, 6, 6P, 12, 13	NEMA 1, 3, 4, 6, 6P, 12, 13
Housing material	zinc die-cast	stainless steel	zinc die-cast
Actuators/levers	top plunger, top roller, top rotary, side rotary, side plunger, side rotary, wobble	top plunger, top roller, top rotary, side rotary, side plunger, side rotary, wobble	top plunger, top roller, top rotary, side rotary, side plunger, side rotary, wobble
Termination	0.5 in/0.75 in - 14NPT conduit; 20 mm conduit; PG13,5; 12 ft cable; 4, 5, and 9-pin mini-connector	0.5 in/0.75 in - 14NPT conduit; 20 mm conduit; PG13,5; 12 ft cable; 4, 5, and 9-pin mini-connector	cable (various lengths); 4-pin, 5-pin, 9-pin, 20-pin mini-connector
Approvals	UL, CSA, CE, CCC	UL, CSA, CE, CCC	UL, CSA, CE, CCC
Circuitry	1NC 1NO SPDT, 1NC direct acting, 2NC 2NO DPDT, 2NC 2NO DPDT sequen.	1NC 1NO SPDT, 1NC direct acting, 2NC 2NO DPDT	1NC 1NO SPDT, 2NC 2NO DPDT
Contacts	silver, gold	silver, gold	silver, gold
Amp rating	10 A (thermal)	10 A (thermal)	10 A (thermal)

Medium-Duty Limit Switches

	14CE/914CE Series	LS Series	BZE6/V6 Series	SL1 Series
Housing type	–	compact/non-plug in; plug in	split housing, side mount split housing, flange mount	–
Sealing	IP65, IP66; NEMA 1, 3, 4, 6, 6P, 12, 13	NEMA 1, 3, 4, 6, 13	NEMA 1, 3, 4, 12	IP67; NEMA 3, 4, 13
Housing material	zinc die-cast	zinc die-cast	zinc die-cast	zinc die-cast
Actuators/levers	side rotary, top plunger, roller, pushbutton, wobble	side rotary, roller arm	top plunger, maint. with reset plunger, lever actuated, wobble	top plunger, roller arm
Termination	cable, micro-connector	0.5 in - 14NPT conduit; mini-connector	0.5 in - 14NPT (or NPSM) conduit; mini-connector, cable	cable gland
Approvals	14CE: ENEC; 914CE: UL, CSA	UL, CSA	UL, CSA, CE	UL, CSA
Circuitry	SPDT, SPSTNC, SPDTMBB, SPDTBBM	SPDT double break, DPDT double break	SPDT, DPDT	SPDT
Contacts	silver, gold	silver, gold	silver	silver, gold
Amp rating	5 A (thermal)	10 A	10 A or 15 A	5 A

MICRO SWITCH™ Limit Switches Line Guide

MICRO SWITCH™ Specialty Limit Switches.
Application-proven specialty limit switches for swing-door applications:

Relialign™ Series Residential Door Interlocks are designed specifically for swing door applications that include residential elevators, dumbwaiters, and platform lifts. The door interlock holds the door in place and prevents it from being opened when not desired (e.g. the elevator/lift car is not present at the door). A number of design features contribute to its enhanced safety, reduction of nuisance stoppages and call-backs, as well as simplified wiring and installation. Featuring a custom internal solenoid control, Relialign™ interlock can reduce complexity of the host controller, trim down power consumption for a "greener" product, extend solenoid life and reduce solenoid "time outs," lessening customer aggravation.

Relialign™ Specialty Limit Switches	Relialign™ RDI Series Residential Door Interlock	Relialign™ RDI2 Series Residential Door Interlock
Description	door interlock for swing-style doors, elevators, and vertical lifts. available with metal (bronze or white color) or plastic (white only) housing	
Housing	metal	thermoplastic
Approvals	compliant to ASME A17.1 and UL 104	compliant to ASME A17.1 and UL 104
Voltage	24 Vdc; 24 Vac	24 Vdc; 24 Vac
Connection	terminal strip or cat 5 available	terminal strip or cat 5 available
Measurements (H x W x D)	247,65 mm x 51,44 mm x 49,23 mm [9.75 in x 2.025 in x 1.938 in]	247,65 mm x 51,44 mm x 49,23 mm [9.75 in x 2.025 in x 1.938 in]

HEAVY-DUTY LIMIT SWITCHES HDLS Series (Standard, Stainless Steel, and Fully Potted).

Features: Rugged housing with electrostatic epoxy finish • Sealed to NEMA 1, 3, 4, 4X, 6, 6P, 12, 13; IP65/66/67 • Fully potted versions exceed NEMA 6P washdown • Side rotary styles may be field modified for CW and/or CCW operation • Operating heads can be rotating 90° • Factory sealed pre-wired or factory-installed connectors available • Corrosion resistant stainless steel housing available • Low temperature sealing available • High temperature, chemical resistant fluorocarbon seals available

Benefits: Includes boss-and-socket head design for secure head-to-body retention, unique all-metal drive train for consistent operating characteristics even at high temperature, and self-lifting pressure plate terminals save wiring time. Type 316 case stainless steel body is designed to minimize crevices where food particles could become trapped. Fully potted version provides an extra degree of protection in harsh environments by sealing the cavity with epoxy. Applications include machine tools, material handling, packaging, presses, shipboards/ dockside, power generating plants, food and beverage machinery, conveying equipment, and more.

MEDIUM-DUTY LIMIT SWITCHES 14CE/914CE Series.

Features: Rugged housing for harsh environments • Miniature size for smaller applications • Available with direct-acting contacts • Pre-leaded or various quick-connect terminations for design flexibility • Wide variety of actuator styles including seal-booted versions

Benefits: 14CE and 914CE Series switches incorporate fluorocarbon diaphragm sealing to provide reliable protection. Versions with boot seal also meet NEMA 12 requirements. For low temperature applications (down to -40 °C, [-40 °F]), CE switches can be supplied with low temperature seals and lubricant.14 CE versions are designed for European applications and meet the requirements of the low voltage directive. 914CE products meet UL and CSA standards, as well as European CE requirements. Applications include processing equiment, textile machinery, machine tools, robotics, and more.

LS Series.

Features: Mode of operation is field adjustable • NEMA 1, 3, 4, 6, and 13 • Wide choice of heads and actuators • Variety of operating characteristics • Captive screws • UL and CSA approved parts available

Benefits: LS fits in many places too small for any other fully adjustable limit switch. 200LS switches are the original plug-in concept for reducing downtime by making changeover simple and fast. Applications include machine tools, conveyors, material handing, and lift trucks.

BZE6/V6 Series.

Features: Rugged electrostatic epoxy-coated metal housing • Precise mechanism offers increased repeatability • Booted versions sealed to NEMA 1, 3, 4 and IP66 • Unsealed actuators sealed to NEMA 1and IP40 • Side or flange mount • Low temperature options available • Gold contacts available • Removable terminal enclosure for easy of wiring

Benefits: Offered with or without actuator seal boots. Both have a combination insulator/seal cemented inside the bottom enclosure. Lead washers are used to seal the mounting holes on side mount switches. All side mount switches are installed with #6 screws, except the BZE6-2RN7 (#8 screws). Removal of the bottom enclosure exposes the terminals for easy wiring. Applications include packaging equipment, textile machinery, construction equipment, printing machinery, and more.

SL1 Series.

Features: Ideal source of replacement parts for imported machine tools • NEMA 3, 4, 13 and IEC IP67 sealing • Smaller size saves space • Rugged zinc die-cast housing • Snap-in terminal enclosures makes mounting and wiring easy • Temperature ranges: standard and low

Benefits: Sealed, sensitive, and have a long life. Compact size makes them suitable for the total miniaturization of machinery or equipment. Applications include robotics, auto factory floor, and electronic assembly equipment.

SPECIALTY LIMIT SWITCHES Relialign™ Series (RDI and RDI2 Residential Door Interlocks).

Features: Compliant to ASME A17.1, UL standard 104, and CSA-B44.1 • Manual override for easy actuation without user hazard • Two separate mechanical actions to indicate door closure • Rugged housing (RDI: metal; RDI2: thermoplastic) • Metal housing available in white and bronze color • Metal key • Internal solenoid control • No open or exposed contacts • Key engagement minimizes nuisance stoppage • Door closure retention cam to hold door with minimal key-to-interlock play • Series or parallel wiring option for the door closed and door locked switches • 6-pin terminal strip or Cat 5 connection options • Configurable product platform • Universal voltage for ac and dc applications

Benefits: Meets required safety codes. Reduced potential for call-backs with reliable performance and multiple design features to minimize nuisance stoppage of applications. Simplified wiring and installation. Reduced OEM design and manufacturing costs. Applications include residential elevators, residential dumbwaiters, and platform/vertical lifts .

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

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For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847
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Failure to comply with these instructions could result in death or serious injury.

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- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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