



QL (AZ4) Micro Limit Switch

Related Information ■ General terms and conditions..... F-3

- FIBER SENSORS
- LASER SENSORS
- PHOTOELECTRIC SENSORS
- MICRO PHOTOELECTRIC SENSORS
- AREA SENSORS
- SAFETY LIGHT CURTAINS / SAFETY COMPONENTS
- PRESSURE / FLOW SENSORS
- INDUCTIVE PROXIMITY SENSORS
- PARTICULAR USE SENSORS
- SENSOR OPTIONS
- SIMPLE WIRE-SAVING UNITS
- WIRE-SAVING SYSTEMS
- MEASUREMENT SENSORS
- STATIC CONTROL DEVICES
- LASER MARKERS
- PLC
- HUMAN MACHINE INTERFACES
- ENERGY MANAGEMENT SOLUTIONS
- FA COMPONENTS
- MACHINE VISION SYSTEMS
- UV CURING SYSTEMS
- Timers
- Time Switches
- Counters
- Hour Meters
- Options
- Limit Switches
- Temperature Controllers
- Solenoids
- Fan Motors



Features

- With appropriate O.T. range display
- O.P. accuracy of ± 0.2 (O.P. repeated accuracy initially ± 0.03) achieved
- A subminiature limit switch with a great stroke margin (O.T./T.T.)
- Long life
Mechanical life: 10^7
Electrical life: 3×10^5
- A mechanism with excellent environment proofing

Typical applications

- Precise small machine
- Machine tool etc.
- Place where precision and solidity

High precision micro limit switches with excellent environment proofing

PRODUCT TYPE

Switch body

Actuator		Exposed terminal type	L socket type*	Socket with cord type*
		Model No.	Model No.	Model No.
Push plunger		AZ4001	AZ4601	AZ4701
Roller plunger		AZ4002	AZ4602	AZ4702
Cross roller plunger		AZ4003	AZ4603	AZ4703
Roller arm		AZ4004	AZ4604	AZ4704
Adjustable rod		AZ4007	AZ4607	AZ4707
Adjustable roller arm		AZ4008	AZ4608	AZ4708

Note: UL recognized type available. When ordering, add suffix "9" to Model No.. Ex) **AZ40019**

*L socket type or socket with cord type is combination of;

L socket type = Exposed terminal type + L socket , Socket with cord type = Exposed terminal type + Socket with cord type (cord length: 1 m 3.281 ft)

Sockets (Used in combination with the exposed terminal type)

Product name	Specifications	Model No.
L socket	The roller can be attached in any of four directions.	AZ3806
	Cord length 1 m 3.281 ft	AZ3807
	Cord length 2 m 6.562 ft	AZ3827
	Cord length 3 m 9.843 ft	AZ3837
	Cord length 5 m 16.405 ft	AZ3857
Socket with cord		

Selection Guide

SL

HL

QL

Magnelimit

CAUTIONS FOR USE

Ambient conditions

- The use of these switches under the following conditions should be avoided.
If the following conditions should become necessary, we recommend consulting us first.
 - Use where there will be direct contact with organic solvents, strong acids or alkalis, or direct exposure to their vapors.
 - Use where inflammable or corrosive gases exist.
- Because these switches are not of water resistant or immersion-proof construction, their use in water or oil should be avoided. Also, locations where water or oil can normally impinge upon the switch or where there is an excessive accumulation of dust should be avoided.
- In order to maintain the reliability at a high level under practical conditions of use, the actual operating conditions should be checked for the benefit of the quality of the product.
- Do not use the switch in a silicon atmosphere. Care should be taken where organic silicon rubber, adhesive, sealing material, oil, grease or lead wire generates silicon.
- Avoid use in excessively dusty environments where actuator operation would be hindered.
- This is designed to use inside. When used outdoors (in places where there is exposure to direct sunlight or rain such as in multistory car parks) or in environments where ozone is generated, the influence of these environments cause deterioration of the rubber material and damage for the products.

Wiring

- Although QL limit switches have large over-travel (O.T.), excessive O.T. will occur wear and change in its characteristics.
Specifically, where there is a need for long life, it is recommended that the proper O.T. should be used.
When the operating object is in the free condition, force should not be applied directly to the actuator.
- Use their own accessories when mounting and wiring QL limit switches so as to maintain their own characteristics.

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