Azbil

Технические характеристики

Бесконтактные датчики

Цилиндрические FL7S, FL7, FL7M

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Stainless Steel Sensing Face Proximity Switch - Model: FL7S

The FL7S Series has superior performance to conventional models, additionally it can easily perform 3 to 5 times longer - or even more!

Description

The FL7S is a proximity switch boasting a stainless steel sensing face and housing, and is specially designed for welding applications on the automobile manufacturing line.

By taking note of our customers' demands and concerns, azbil set out to develop a sensor that could meet the severe requirements demanded by users in the field. After rigorous testing, the FL7S Series was proven to have superior performance.

With conventional sensors, welding sparks lead to hard-to-remove spatter and slag. The big problem is the scratches caused by the abrasive metal brush used to remove the spatter and slag that got stuck. Azbil Corporation has solved this major problem by creating a stainless steel sensing face that resists abrasion for the FL7S Series. All tests showed that the FL7S possesses excellent endurance.

Repetitive shocks when welding parts hit the sensor head often result in a shortening of sensor life. The FL7S Series' greatly strengthened stainless steel sensing face is the answer to this problem. All tests showed that the FL7S has robust shock resistance.

Features

- The sensing face is integrated into a stainless steel housing having high shock resistance and superior abrasion resistance
- Special spatter-resistant coating
- Highly resistant to electromagnetic field noise from welding
- The line-up includes M8, M12, M18 and M30 models

Compact Cylindrical Proximity Switches with Built-in Amplifier - Model: FL7(N/M)

The smallest amplifier in the industry, built into DC2-wire cylindrical switches.

Features

- Compact cylindrical switch head
- Unthreaded type (FL7N): 4 dia. mm x 30 mm
- Threaded type (FL7M): M5 mm x 30 mm
- Sealed to IP67

DC2-Wire Unshielded Cylindrical Proximity Switches - Model: FL7M

Unshielded switches achieve especially long sensing distances.

Features

- Long sensing distance (2 times the sensing distance of a regular FL7M)
- DC2-wire no-polarity function reduces wiring costs
- Stable sensing area is shown by the setting indicator
- Firefly glow indicator lamp can be seen from any direction
- Sealed to IP67G

DC2-Wire Environment-Resistant Cylindrical Proximity Switches - Model: FL7M-C

Proximity switches with oil-resistant polyurethane cables designed for use in harsh environments, such as automobile manufacturing assembly, where cables are continuously attacked by coolant.

Features

- Greatly enhanced sealing performance through elimination of cable deterioration caused by water-soluble coolants
- Resistance to cable hardening has been significantly improved
- Passes coolant immersion test (1.000 hours at 70 °C)
- Coolant-resistant polyurethane is used for cable sheeting and insulation
- The line-up includes regular models (M8, M12, M18, M30) and aluminium-chip resistant models (M12, M18, M30)
- The seal has been improved with a special cable moulding process

DC2-Wire Aluminium-Chip Resistant Cylindrical Proximity Switches - Model: FL7M-A

Detects workpieces reliably even if aluminium or cast iron chips accumulate on the sensing head.

Features

DC2-wire proximity switches can be directly connected to programmable controllers and N.C. units. This reduces wiring costs.; Firefly indicator lamp can be checked even from the rear; Tough IP67 seal; Certified EN-compliant

DC3-Wire Cylindrical Proximity Switches - Model: FL7M

Extensive line-up includes M8 to M30 sizes, with NPN and PNP output models available for each size.

Features

- Compact size saves space
- Indicator lamp can be checked even from the rear
- Sealed to IP67
- Numerous variations
- Enhanced circuit protection (surge absorption, load short circuit and reverse connection countermeasures)

AC/DC2-Wire Type Cylindrical Proximity Switches - Model: FL7M

No-polarity 2-wire general-purpose switches are easy to use.

Features

- 2-wire type for both AC and DC greatly reduces wiring man-hours
- Stable sensing area displayed by setting indicator (green / red LED)
- Indicator lamp can be seen even from the rear (preleaded and preleaded connector types)
- Compact and space-saving
- Sealed to IP67
- Enhanced circuit protection (surge absorption, load short-circuit)

DC2-Wire Spatter-Guarded Cylindrical Proximity Switches - Model: FL7M

A variety of anti-spatter measures make these switches the optimum for welding processes on the automotive production line.

Features

- With Teflon coating on the body housing and a Teflon resin head surface, it's difficult for spatter to stick
- Flame-resistant cable. Non-combustible cable is also available
- Connector type is also available

DC2-Wire Cylindrical Long-Distance No-Polarity Proximity Switches - Model: FL7M

Rigid Structure reduces damage from collision with workpiece.

Features

- Long sensing distance
  - M12: 4 mm
  - M18: 8 mm
  - M30: 15 mm
- DC 2-wire switch with no polarity reduces wiring costs and wiring errors
- Stable sensing area is shown by the setting indicator
- Rigid housing allows higher mounting torque
- Firefly glow indicator can be seen from any direction
- Lowest current consumption in the industry: 0,55 mA
- Sealed to IP67G

DC2-Wire Regular Cylindrical Proximity Switches - Model: FL7M

Rigid structure, highly waterproof DC 2-wire switches with improved visibility of indicator lamps.

Features

- DC 2-wire, for reduced wiring costs
- Stable sensing area is shown by the setting indicator
- Rigid housing allows higher mounting torque
- Firefly glow indicator lamp can be seen from any direction
- Lowest current consumption in the industry: 0,55 mA
- Sealed to IP67G
- Fastest response time in the industry: 2 kHz