www.autoswitches.co.kr

FOR AIR CYLINDER AUTO SWITCHES

· Reed S/W Type & Solid State Type · 전품목 CE인증 · 전품목 방수(IP67)



SAEWON ELECTRONICS CO., LTD

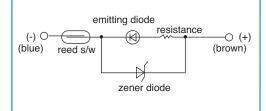
[AP] D-A93 (REED S/W TYPE)

01

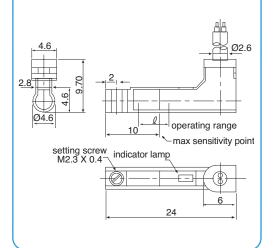


CONNECTION DIAGRAM

(AP) D-A 93



MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION



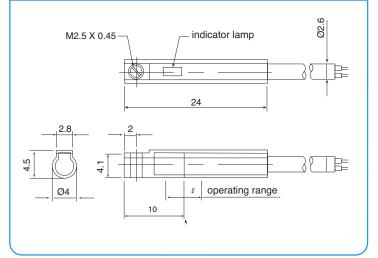
• CHARACTER & APPLICATION CONDITION

| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 2.6Ø mm(Grey) |
| Conductor | 0.08 × 30(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 $\tt M2$ at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60℃ |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

* Standard Lead wire is 1 meter long, Longer size are available by order.

⊙ (AP) D-A93, (AP) D-A93V | SPECIFICATION

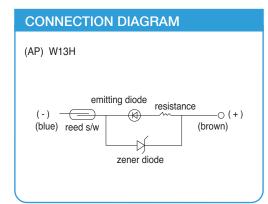
| Specification | (AP) D-A93(BAR), (AP) D-A93V(ANGLE TYPE) | | | | | |
|-------------------------|--|--|--|--|--|--|
| Input Load | PLC, Relay | | | | | |
| Load Voltage | DC24V AC110V | | | | | |
| Load Current | 5~40mA 5~20mA | | | | | |
| Contact Protect Circuit | None | | | | | |
| Int'l Voltage Drop | 2.7V | | | | | |
| Signal Lamp | Red LED Emitting when S/W ON | | | | | |



02

[AP] W13H, (AP)D-Z 73 (REED S/W TYPE)









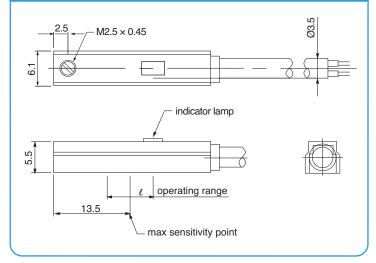
• CHARACTER & APPLICATION CONDITION

| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 $\tt M2$ at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60°C |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

* Standard Lead wire is 1 meter long, Longer size are available by order.

⊙ (AP) W13H, D-Z73 | SPECIFICATION

| Specification | (AP) W13H, D-Z73 | | | | |
|-------------------------|------------------|---------------|--|--|--|
| Input Load | PLC, Relay | | | | |
| Load Voltage | DC24V AC110V | | | | |
| Load Current | 5~40mA 5~20mA | | | | |
| Contact Protect Circuit | None | | | | |
| Int'l Voltage Drop | 2.7V | | | | |
| Signal Lamp | Red LED Emi | itting S/W ON | | | |



[AP] D-C7 SERIES (REED S/W TYPE)



(AP) D-C73, D-C75 AUTO S/W | • CHARACTER & APPLICATION CONDITION

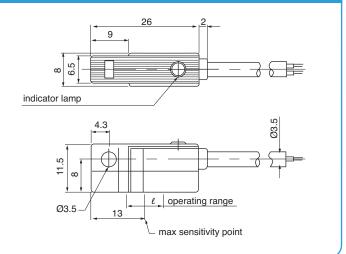
| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 10 at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60°C |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

* Standard Lead wire is 1 meter long, Longer size are available by order.

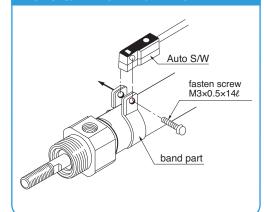
⊙ (AP) D-C73, D-C75 | SPECIFICATION

| Specification | (AP) D-C73 | | (| 5 | |
|-------------------------|--------------|-----------|-------------|------------|--------|
| Input Load | PLC, Relay | | | PLC, Relay | |
| Loading Voltage | DC24V AC110V | | DC24V | AC110V | AC220V |
| Loading Current | 5~40mA | 5~20mA | 5~40mA | 5~20mA | 5~12mA |
| Contact Protect Circuit | None | | | | |
| Int'l Voltage Drop | Below 2.7V | | | | |
| Signal Lamp | | Red LED E | Emitting wh | en S/W on | |

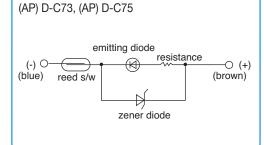
MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION



AUTO S/W INSTALL/REMOVE



CONNECTION DIAGRAM

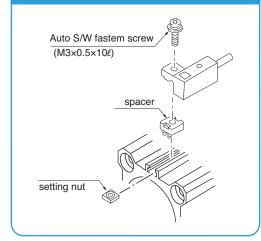


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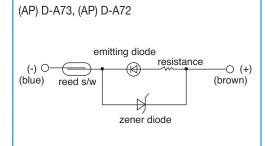
[AP] D-A7 SERIES (REED S/W TYPE)



AUTO S/W INSTALL/REMOVE



CONNECTION DIAGRAM



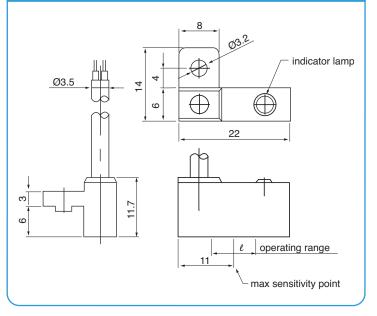
(AP) D-A73, D-A72 AUTO S/W

| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 10 at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60°C |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

* Standard Lead wire is 1 meter long, Longer size are available by order.

⊙ (AP) D-A73, D-A72 | SPECIFICATION

| Specification | (AP) D-A73 | | (AP) D-A72 | | |
|-------------------------|-----------------------|------------------------------|------------|--------|--------|
| Input Load | PLC, Relay | | PLC, Relay | | |
| Loading Voltage | DC24V AC110V DC24V AC | | | AC110V | AC220V |
| Loading Current | 5~40mA | 5~20mA | 5~40mA | 5~20mA | 5~12mA |
| Contact Protect Circuit | None | | | | |
| Int'l Voltage Drop | Below 2.7V | | | | |
| Signal Lamp | | Red LED Emitting when S/W on | | | |

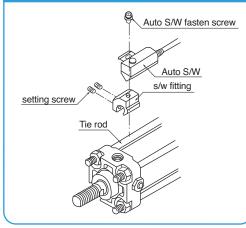


[AP] D-A5 SERIES (REED S/W TYPE)

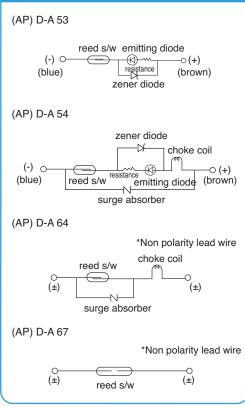
05



AUTO S/W INSTALL/REMOVE



CONNECTION DIAGRAM



(AP) D-A5□ SERIES AUTO S/W | • CHARACTER & APPLICATION CONDITION

| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 $\tt M2$ at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60°C |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

* Standard Lead wire is 1 meter long, Longer size are available by order.

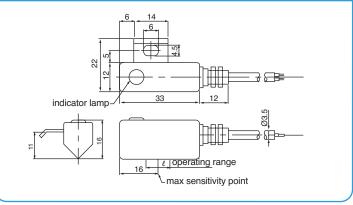
⊙ (AP) D-A54, D-A53 | SPECIFICATION

| Specification | | (AP) D-A53 | | | |
|-------------------------|-----------------|----------------|---------------|---|--|
| Input Load | | PLC, Relay | | | |
| Loading Voltage | DC24V | DC24V | | | |
| Loading Current | 5~50mA | 5~20mA | | | |
| Contact Protect Circuit | Builted in None | | | | |
| Int'l Voltage Drop | Below 2.7V | | | | |
| Signal Lamp | R | ed LED Emittir | ng when S/W o | n | |

⊙ (AP) D-A64, D-A67 | SPECIFICATION

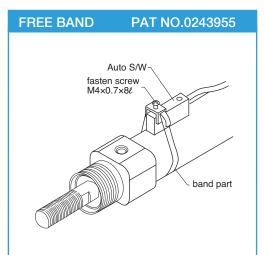
| Specification | (AP) D-A64 | | | (AP) D-A67 | | |
|-------------------------|--|--|--|------------|------------|--------|
| Input Load | PLC, Relay | | | I | PLC, Relay | y |
| Loading Voltage | DC24V AC110V AC220V | | | DC24V | AC110V | AC220V |
| Loading Current | 50mA 25mA 12.5mA | | | 100mA | 50mA | 25mA |
| Contact Protect Circuit | None | | | | | |
| Int'l Voltage Drop | Below 25 \mathcal{Q} Below 1 \mathcal{Q} | | | | | |
| Signal Lamp | None | | | | | |

MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION



SAEWON ELECTRONICS CO., LTD.

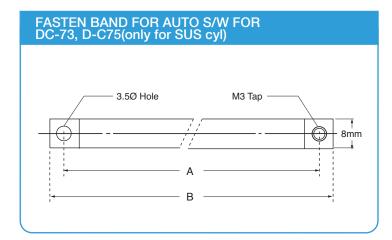
AUTO S/W 취부방법 및 액세서리 및 사이즈(Band & Brackets)



Free Band Setting Example for DC73 & D-C75

- 1. Put Free Band to cylinder and insert Auto S/W between cylinder & Free Band.
- 2. Positioning Auto S/W on the max sensitivity point and pull over the tip end of Free Band by plier.
- 3. Tightening Auto S/W by driving setting screw on the Free Band
- 4. After tightening out off excess parts of Band.
- 5. Applicable cylinder size is 6Ø to 40 Ø for standard size of Free Band.

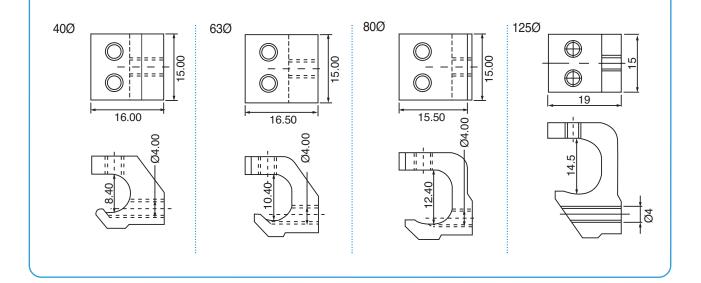
Above 40Ø mm to 80Ømm, you are requested a special order.



SPECIFICATION FOR FASTEN BAND

| NO | cyl outer dia | А | В |
|----|---------------|-------|------|
| 1 | 6 Ø | 34.5 | 41 |
| 2 | 10 Ø | 45.5 | 52 |
| 3 | 15 Ø | 60.5 | 67.5 |
| 4 | 20 Ø | 76.5 | 83 |
| 5 | 25 Ø | 92.5 | 99 |
| 6 | 30 Ø | 107.5 | 114 |
| 7 | 32 Ø | 114.5 | 121 |
| 8 | 40 Ø | 140.5 | 147 |

FITTING BRACKETS ON TIE ROD TYPE(D-A54 SERIES)

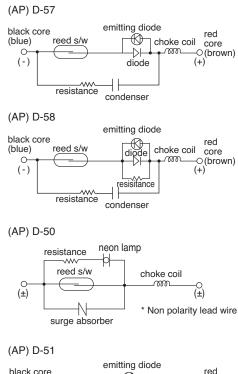


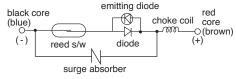
[AP] D-5 SERIES (REED S/W TYPE)

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CONNECTION DIAGRAM





(AP) D-5 SERIES AUTO S/W

• CHARACTER & APPLICATION CONDITION

| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 4.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 10 at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60°C |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

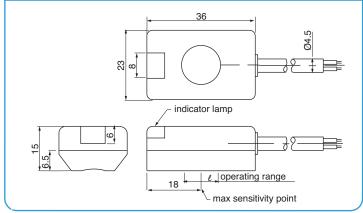
* Standard Lead wire is 1 meter long, Longer size are available by order.

⊙ (AP) D-57, D-58 | SPECIFICATION

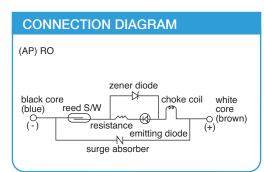
| Specification | (AP) D-57 (AP) D-58 | | |
|-------------------------|------------------------------|------------|--|
| Input Load | PLC, Relay | PLC, Relay | |
| Loading Voltage | DC24V | | |
| Loading Current | 5~50mA 10~100mA | | |
| Contact Protect Circuit | Builted in | | |
| Int'l Voltage Drop | Below 2.7V | | |
| Signal Lamp | Red LED Emitting when S/W on | | |
| | | | |

⊙ (AP) D-50, D-51 | SPECIFICATION

| Specification | (AP) D-50 | | (AP) D-51 | | |
|-------------------------|-------------------------|----------|---------------------------------|--------|----------|
| Input Load | Relay | | PLC, Relay | | ' |
| Loading Voltage | AC110V | AC220V | DC24V | AC110V | AC220V |
| Loading Current | 5~25mA | 5~12.5mA | 5~50mA | 5~25mA | 5~12.5mA |
| Contact Protect Circuit | Builted in | | | | |
| Int'l Voltage Drop | Below 1V | | Below 2.7V | | |
| Signal Lamp | Lemp on when S/W off | | Red LED Emitting when S/W on | | 0 |







(AP) RO AUTO S/W

• CHARACTER & APPLICATION CONDITION

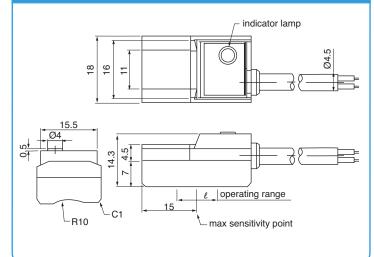
| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 4.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 $\tt M2$ at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60°C |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

* Standard Lead wire is 1 meter long, Longer size are available by order.

● (AP) RO | SPECIFICATION

| Specification | (AP) RO | | | |
|-------------------------|-------------------------|--|--|--|
| Input Load | PLC, Relay | | | |
| Load Voltage | DC24V AC110V AC220V | | | |
| Load Current | 5~40mA 5~20mA 5~12.5mA | | | |
| Contact Protect Circuit | None | | | |
| Int'l Voltage Drop | 2.7V | | | |
| Signal Lamp | Red LED Emitting S/W ON | | | |

MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION



[AP] SO(CKD TYPE) (REED S/W TYPE)



(AP) SO AUTO S/W

• CHARACTER & APPLICATION CONDITION

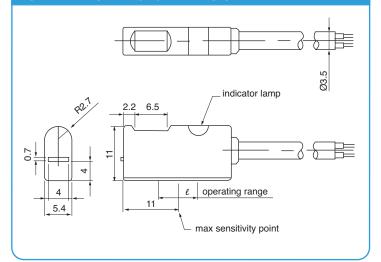
| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 $\tt M2$ at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60°C |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

 \ast Standard Lead wire is 1 meter long, Longer size are available by order.

● (AP) SO | SPECIFICATION

| Specification | (AP) SO | | |
|-------------------------|-------------------------|--|--|
| Input Load | PLC, Relay | | |
| Load Voltage | DC24V AC110V | | |
| Load Current | 5~40mA 5~20mA | | |
| Contact Protect Circuit | None | | |
| Int'l Voltage Drop | 2.7V | | |
| Signal Lamp | Red LED Emitting S/W ON | | |

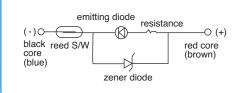
MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION



08

CONNECTION DIAGRAM

(AP) SO





(AP) APC AUTO S/W

O CHARACTER & APPLICATION CONDITION

| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 10 at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60°C |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

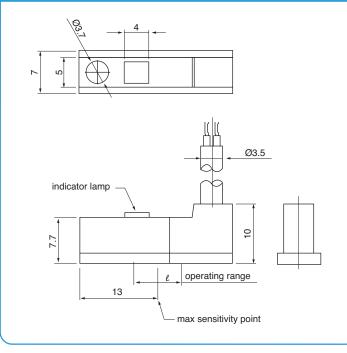
* Standard Lead wire is 1 meter long, Longer size are available by order.

● (AP) APC | SPECIFICATION

| | | | | Specification |
|-------------------------------|----------------|-------------------------|--|-----------------|
| (AP) APC | | | | Input Load |
| | | | | Load Voltage |
| reed S/W | emitting diode | | | Load Current |
| (-) O black core (blue) | diode | ──────────── (brown) | | Contact Prote |
| | | | | Int'l Voltage D |
| | | | | Signal Lamp |

CONNECTION DIAGRAM

| Specification | (AP) APC | | |
|-------------------------|---------------|----------------|--|
| Input Load | PLC, Relay | | |
| Load Voltage | DC24V AC110V | | |
| Load Current | 5~40mA 5~20mA | | |
| Contact Protect Circuit | None | | |
| Int'l Voltage Drop | 2.7V | | |
| Signal Lamp | Red LED En | nitting S/W ON | |



[AP] MA-1(Kuroda TYPE) (REED S/W TYPE)

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(AP) MA-1 AUTO S/W

• CHARACTER & APPLICATION CONDITION

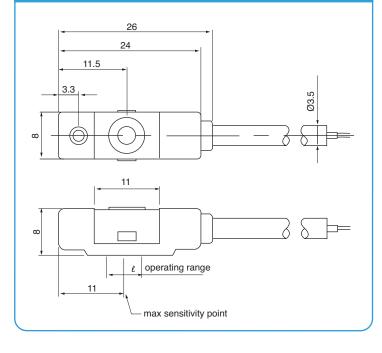
| Leakage Current | None |
|-------------------|--|
| Lead Wire | Oil resistant vinyl jacket VW-1 |
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Shock/Vibration | 30G |
| Insulation | Up to 50 ${\tt M}{\tt Q}$ at DC500V Between case & Lead wire |
| Endurance Voltage | For 1 Min under AC1500V Between case & Lead wire |
| Temperature Range | -10~60°C |
| Enclosure | IP67 |
| Response Time | Less than 1msec |

* Standard Lead wire is 1 meter long, Longer size are available by order.

● (AP) MA-1 | SPECIFICATION

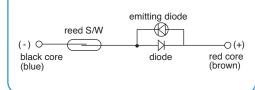
| Specification | (AP) MA-1 | | |
|-------------------------|-------------------------|--|--|
| Input Load | PLC, Relay | | |
| Load Voltage | DC24V AC110V | | |
| Load Current | 5~40mA 5~20mA | | |
| Contact Protect Circuit | None | | |
| Int'l Voltage Drop | 2.7V | | |
| Signal Lamp | Red LED Emitting S/W ON | | |

MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION



CONNECTION DIAGRAM

(AP) MA-1





(AP) D-F8□ AUTO S/W | • CHARACTER & APPLICATION CONDITION

| Lead Wire | Oil resistant vinyl jacket(VW-1, Fire retardant) |
|-------------------|--|
| Jacket | 2.6Ø mm(Grey) |
| Conductor | 0.07 × 30(coil) |
| Enclosure Rating | IP67 |
| Shock/Vibration | 30G |
| Insulation | Up to 50 10 at DC500 Mega (Between case & Lead wire) |
| Response Time | 1msec |
| Temperature Range | -10~70°C |
| Endurance Voltage | For 1 Min under AC1500V (Between case & Lead wire) |
| | |

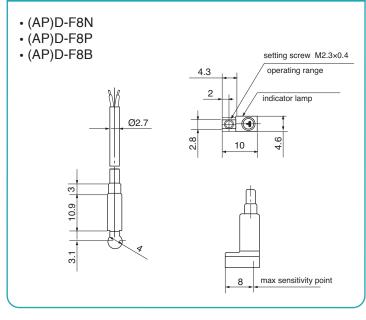
* Standard Lead wire is 1 meter long, Longer size are available by order.

⊙ (AP) D-F8N Series | FEATURES

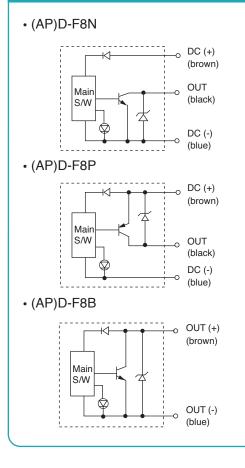
| Specification | (AP) D-F8N | (AP) D-F8P | (AP) D-F8B |
|--------------------|---------------------------|------------|---------------|
| Output Function | NPN | PNP | 2Wire |
| Input Load | | | |
| Connection | 3Wire | | 2Wire |
| Input Voltage | DC4.5~28V | | DC24V(10~28V) |
| Load Current | 0~100mA | | 5~50mA MAX |
| Int'l Voltage Drop | 0.8V | | 4.5V |
| Leakage Current | 100uA | | 1mA MAX |
| Signal Lamp | Red LED Emitting when S/W | | |
| | | | |

※ 무접점 NC(normal close) TYPE은 주문생산합니다.

MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION



CONNECTION DIAGRAM



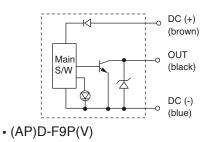
[AP] D-F9 SERIES (Solid State Type)

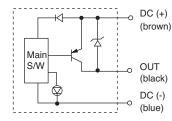
12



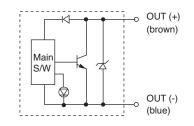
CONNECTION DIAGRAM

• (AP)D-F9N(V)

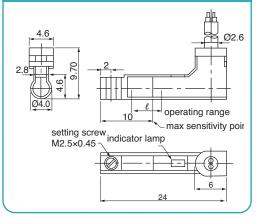




• (AP)D-F9B(V)



MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION



SPECIFICATION

| Oil resistant vinyl jacket(VW-1, Fire retardant) |
|--|
| 2.6Ø mm(Grey) |
| 0.07 × 30(coil) |
| IP67 |
| 30G |
| Up to 50 10 at DC500 Mega (Between case & Lead wire) |
| 1msec |
| -10~60℃ |
| For 1 Min under AC1500V (Between case & Lead wire) |
| |

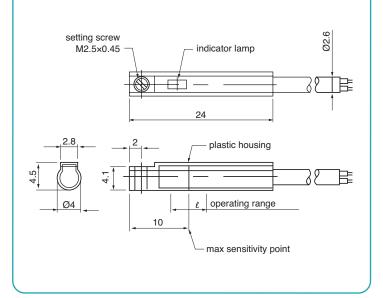
* Standard Lead wire is 1 meter long, Longer size are available by order.

⊙ (AP) D-F9N(V) Series | FEATURES

| Specification | (AP) D-F9N(V) | (AP) D-F9P(V) | (AP) D-F9B(V) |
|--------------------|---------------------------|---------------|---------------|
| Output Function | NPN | PNP | 2Wire |
| Input Load | | | |
| Connection | 3Wire | | 2Wire |
| Input Voltage | DC4.5~28V | | DC24V(10~28V) |
| Load Current | 0~100mA | | 5~50mA |
| Int'l Voltage Drop | 0.8V | | 4.5V |
| Leakage Current | 100uA | | 1mA MAX |
| Signal Lamp | Red LED Emitting when S/W | | |
| | | | |

※ 무접점 NC(normal close) TYPE은 주문생산합니다.

MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION

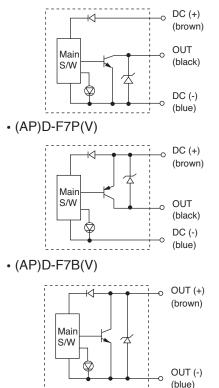


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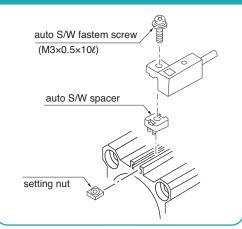


CONNECTION DIAGRAM





AUTO S/W INSTALL/REMOVE



SPECIFICATION

| Lead Wire | Oil resistant vinyl jacket(V W-1, Fire retardant) |
|-------------------|--|
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Enclosure Rating | IP67 |
| Shock/Vibration | 30G |
| Insulation | Up to 50 10 at DC500 Mega (Between case & Lead wire) |
| Response Time | 1msec |
| Temperature Range | -10~60°C |
| Endurance Voltage | For 1 Min under AC1500V (Between case & Lead wire) |
| | |

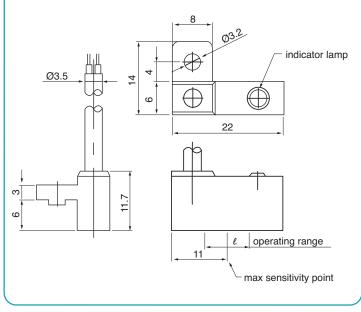
* Standard Lead wire is 1 meter long, Longer size are available by order.

● (AP) D-F7 Series | FEATURES

| Specification | (AP) D-F7N(V) | (AP) D-F7P(V) | (AP) D-F7B(V) |
|--------------------|---------------------------|---------------|---------------|
| Output Function | NPN | PNP | 2Wire |
| Input Load | | | |
| Connection | 3Wire | | 2Wire |
| Input Voltage | DC4.5~28V | | DC24V(10~28V) |
| Load Current | 0~100mA | | 5~50mA MAX |
| Int'l Voltage Drop | 0.8V | | 4.5V |
| Leakage Current | 100uA | | 1mA MAX |
| Signal Lamp | Red LED Emitting when S/W | | |
| | | | |

※ 무접점 NC(normal close) TYPE은 주문생산합니다.

MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION

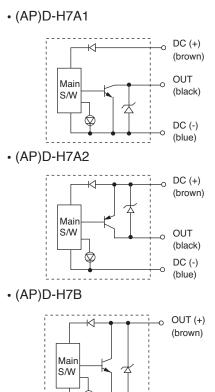


[AP] D-H7 SERIES (Solid State Type)

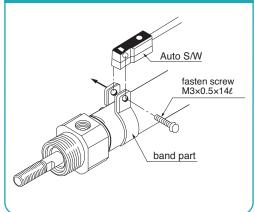
14



CONNECTION DIAGRAM



AUTO S/W INSTALL/REMOVE



SPECIFICATION

| Lead Wire | Oil resistant vinyl jacket(VW-1, Fire retardant) |
|-------------------|--|
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Enclosure Rating | IP67 |
| Shock/Vibration | 30G |
| Insulation | Up to 50 10 at DC500 Mega (Between case & Lead wire) |
| Response Time | 1msec |
| Temperature Range | -10~60℃ |
| Endurance Voltage | For 1 Min under AC1500V (Between case & Lead wire) |

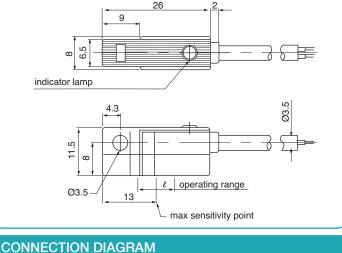
* Standard Lead wire is 1 meter long, Longer size are available by order.

● (AP) D-H7A Series | FEATURES

| Specification | (AP) D-H7A1 | (AP) D-H7A2 | (AP) D-H7B |
|--------------------|---------------------------|-------------|---------------|
| Output Function | NPN | PNP | 2Wire |
| Input Load | IC, PLC, Relay | | |
| Connection | ЗW | 2Wire | |
| Input Voltage | DC4.5~28V | | DC24V(10~28V) |
| Load Current | 0~100mA | | 5~50mA MAX |
| Int'l Voltage Drop | 0.8V | | 4.5V |
| Leakage Current | 100uA | | 1mA MAX |
| Signal Lamp | Red LED Emitting when S/W | | |

※ 무접점 NC(normal close) TYPE은 주문생산합니다.

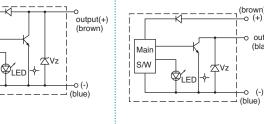




SOLID STATE 2 WIRE

Mair

S/W



SOLID STATE 3 WIRE

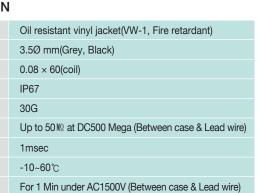
(brown) __o (+)

o output

(black)

OUT (-)

(blue)



SPECIFICATION

| Lead Wire | Oil resistant vinyl jacket(VW-1, Fire retardant) |
|-------------------|--|
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Enclosure Rating | IP67 |
| Shock/Vibration | 30G |
| Insulation | Up to 50 10 at DC500 Mega (Between case & Lead wire) |
| Response Time | 1msec |
| Temperature Range | -10~60°C |
| Endurance Voltage | For 1 Min under AC1500V (Between case & Lead wire) |

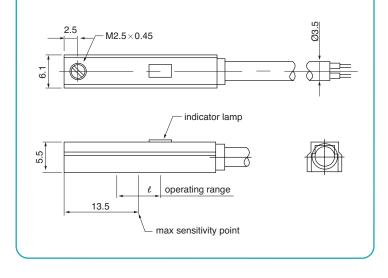
* Standard Lead wire is 1 meter long, Longer size are available by order.

⊙ (AP) D-Y59A Series | FEATURES

| Specification | (AP) D-Y59A | (AP) D-Y59P | (AP) D-Y59B |
|--------------------|---------------------------|-------------|---------------|
| Output Function | NPN | PNP | 2Wire |
| Input Load | IC, PLC, Relay | | |
| Connection | 3Wire | | 2Wire |
| Input Voltage | DC4.5~28V | | DC24V(10~28V) |
| Load Current | 0~100mA | | 5~50mA MAX |
| Int'l Voltage Drop | 0.8V | | 4.5V |
| Leakage Current | 100uA | | 1mA MAX |
| Signal Lamp | Red LED Emitting when S/W | | |
| | | | |

※ 무접점 NC(normal close) TYPE은 주문생산합니다.

MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION

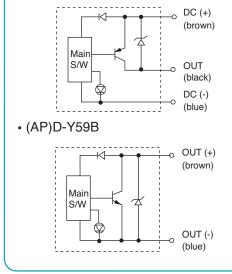


DC (+) -0 (brown) OUT Main (black) S/W ベ ∇ DC (-) (blue) • (AP)D-Y59P

CONNECTION DIAGRAM

• (AP)D-Y59A

0 D-Y59A - I A P

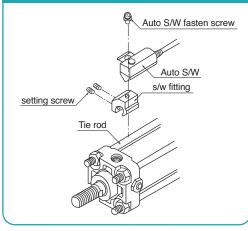


[AP] D-[59 SERIES (Solid State Type)

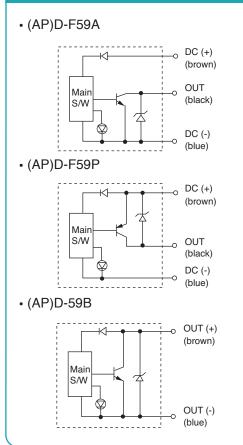
16



AUTO S/W INSTALL/REMOVE



CONNECTION DIAGRAM



SPECIFICATION

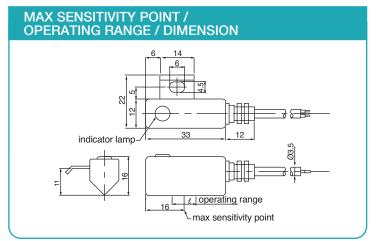
| Lead Wire | Oil resistant vinyl jacket(VW-1, Fire retardant) |
|-------------------|---|
| Jacket | 3.5Ø mm(Grey, Black) |
| Conductor | 0.08 × 60(coil) |
| Enclosure Rating | IP67 |
| Shock/Vibration | 30G |
| Insulation | Up to 50 🕸 at DC500 Mega (Between case & Lead wire) |
| Response Time | 1msec |
| Temperature Range | -10~60°C |
| Endurance Voltage | For 1 Min under AC1500V (Between case & Lead wire) |

* Standard Lead wire is 1 meter long, Longer size are available by order.

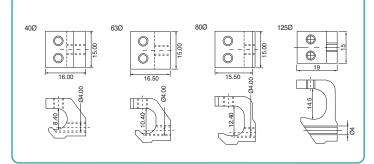
⊙ (AP) D-F59, 1H Series | FEATURES

| Specification | (AP) D-F59 | (AP) D-F59P | (AP) D-F59B |
|--------------------|---------------------------|-------------|---------------|
| Output Function | NPN | PNP | 2Wire |
| Input Load | | | |
| Connection | 3Wire | | 2Wire |
| Input Voltage | DC4.5~28V | | DC24V(10~28V) |
| Load Current | 0~100mA | | 5~50mA MAX |
| Int'l Voltage Drop | 0.8V | | 4.5V |
| Leakage Current | 100uA | | 1mA MAX |
| Signal Lamp | Red LED Emitting when S/W | | |
| | | | |

※ 무접점 NC(normal close) TYPE은 주문생산합니다.



FITTING BRACKETS ON TIE TYPE(AP) D-F59A, D-F59P, D-59B



[AP] R2/R3(CKD TYPE) (Solid State Type)



SPECIFICATION

| Lead Wire | Oil resistant vinyl jacket(VW-1, Fire retardant) | | |
|-------------------|--|--|--|
| Jacket | 4.5Ø mm(Grey, Black) | | |
| Conductor | 0.08 × 60(coil) | | |
| Enclosure Rating | IP67 | | |
| Shock/Vibration | 30G | | |
| Insulation | Up to 50 10 at DC500 Mega (Between case & Lead wire) | | |
| Response Time | 1msec | | |
| Temperature Range | -10~60°C | | |
| Endurance Voltage | For 1 Min under AC1500V (Between case & Lead wire) | | |
| | | | |

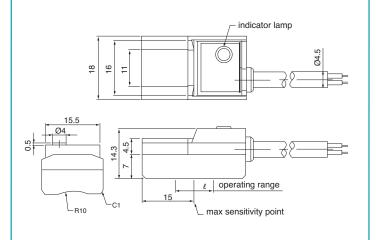
* Standard Lead wire is 1 meter long, Longer size are available by order.

⊙ (AP)R3, (AP)R2, (AP)R5 Series | FEATURES

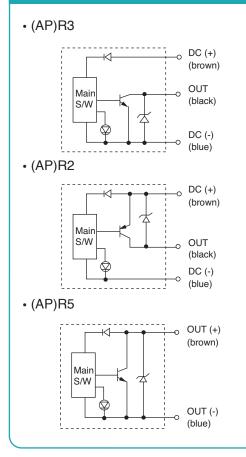
| Specification | (AP) RO3 | (AP) RO2 | (AP) RO5 |
|--------------------|---------------------------|----------|---------------|
| Output Function | NPN | PNP | 2Wire |
| Input Load | IC, PLC, Relay | | |
| Connection | 3Wire | | 2Wire |
| Input Voltage | DC4.5~28V | | DC24V(10~28V) |
| Load Current | 0~100mA | | 5~50mA MAX |
| Int'l Voltage Drop | 0.8V | | 4.5V |
| Leakage Current | 100uA | | 1mA MAX |
| Signal Lamp | Red LED Emitting when S/W | | |

※ 무접점 NC(normal close) TYPE은 주문생산합니다.

MAX SENSITIVITY POINT / OPERATING RANGE / DIMENSION



CONNECTION DIAGRAM



AGENCY



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