

# D-A54K series



Applicable cylinder	Symbol
ACM Ø40, Ø50, Ø63, Ø80, Ø100 ACL Ø125, Ø140, Ø150, Ø160 KP70HL/140HL Ø40, Ø50, Ø63, Ø80	

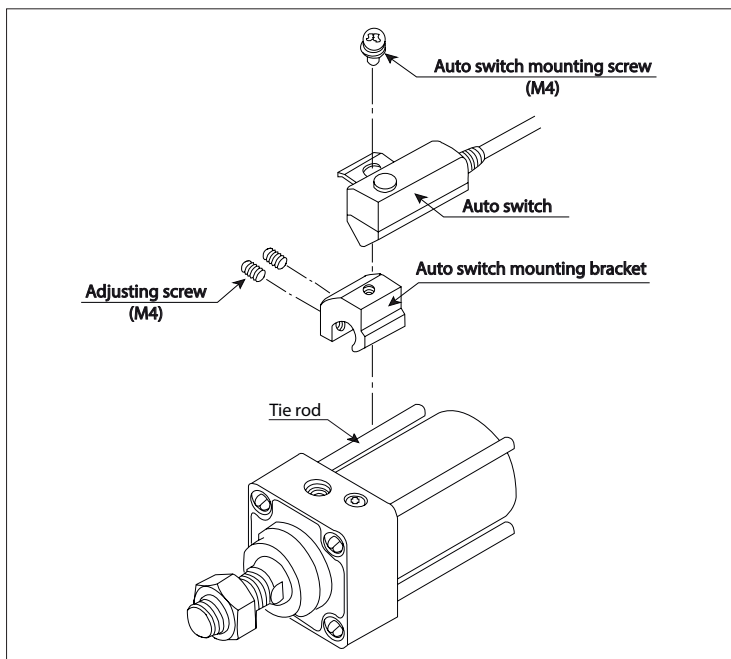
## Specifications

Model	D-A54K			D-A56K	D-A64K		
Application	Relay, PLC			IC circuit	Relay, PLC, IC circuit		
Voltage	DC24V	AC110V	AC220V	DC4~8V	DC24V	AC110V	AC220V
Current range	5~50mA	5~25mA	5~12.5mA	20mA	50mA	25mA	12.5mA
Contact protection circuit	Built-in			None	Built-in		
Internal voltage drop	≤2.4V			≤0.8V	-		
Internal resistance	-			-	≤10Ω		
Indicator lamp	Red LED			None			
Wire length	1m (Standard), 3m, 5m						

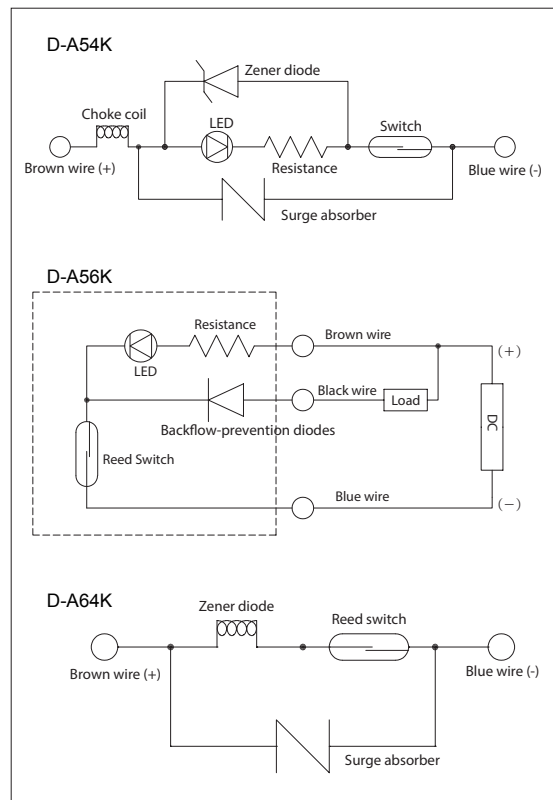
## Weight

Model		D-A54k	Unit: g
Wire length(m)	1	36	
	3	86	
	5	136	

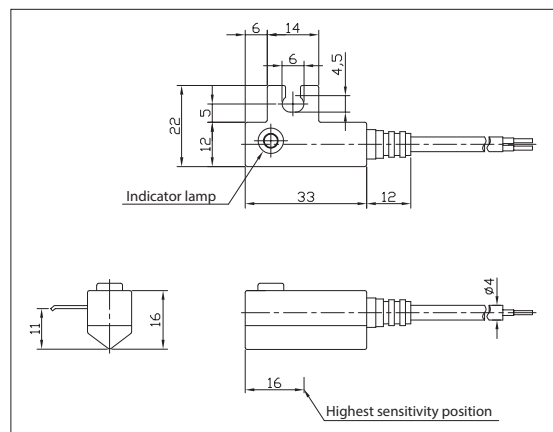
## Mounting



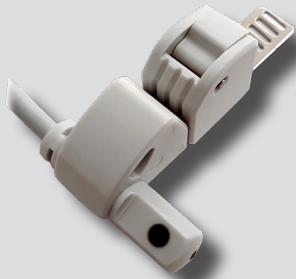
## Circuit Diagram



## Dimensions



# D-A54KN series



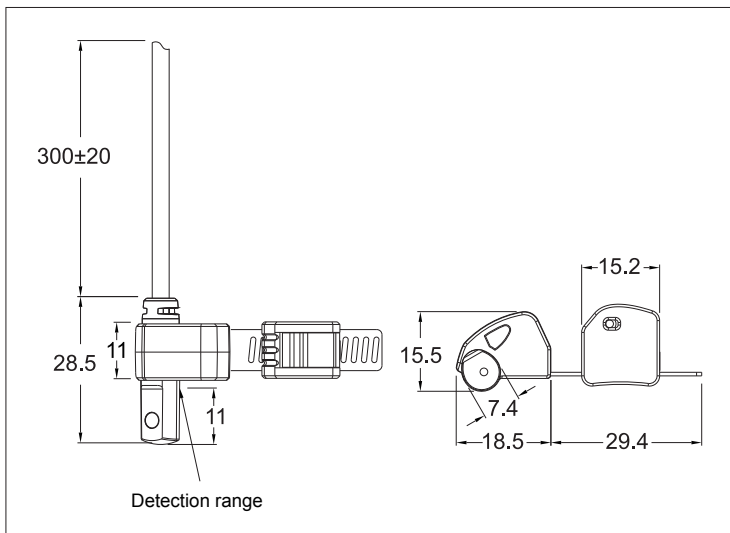
Applicable cylinder	Symbol
ACM Ø40 ~ 100 ACL Ø125 ~ Ø200 KP140HL Ø40 ~ Ø100	

## Specifications

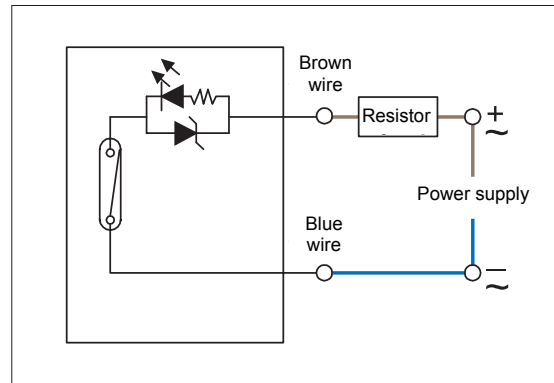
Wiring method	2-wire
Switch logic	SPST, Normally Open
Application	Relay, PLC
Voltage	5~240V AC/DC
Switching current	≤100mA
Contact capacity ※1	≤10W
Internal voltage drop	≤3.5V
Indicator lamp	Red LED
Lead wire	Ø3.3, 2C, PVC
Operating frequency	200Hz
Required magnetic gauss ※2	55Gauss
Ambient Temperature	-10~70℃
Shock resistance ※3	30G
Vibration resistance ※4	9G
Protection Structure	IEC 60529 IP67
Wire length	300mm

- ※1 The contact capacity cannot be exceeded. (P=VxI)
- ※2 Standard target measurement: Ø15.5xØ8xØ5t (anisotropic rubber magnet)
- ※3 Sine wave / X, Y, Z, 3 directions / 3 times in each direction / 11ms each time
- ※4 Double vibration width 1.5mm / 10Hz~55Hz~10Hz (1 minute) / Operating X, Y, Z axis for 1 hour each time

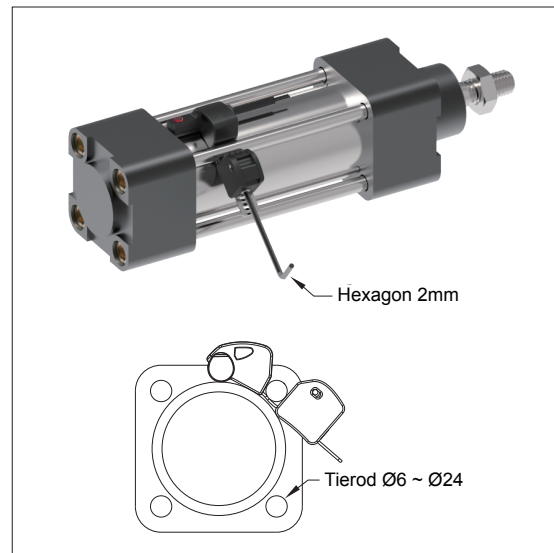
## Dimensions



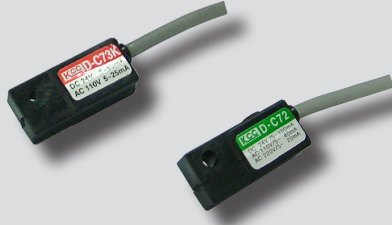
## Circuit Diagram



## Mounting



# D-C72K / D-C73K series



Applicable cylinder	Symbol
ACP Ø6, Ø10, Ø16 ACS2/3 Ø20, Ø25, Ø32, Ø40	

## Specifications

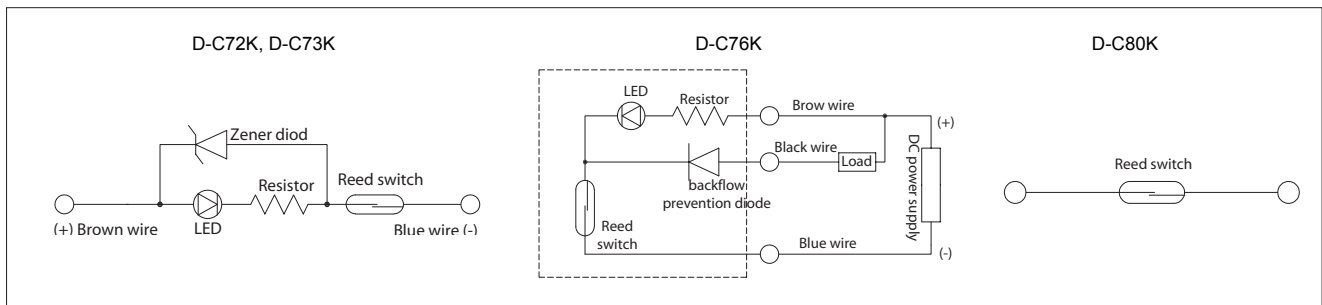
Model	D-C72K			D-C73K		D-C76K	D-C80K	
Application	Relay, PLC					IC circuit	Relay, PLC, IC circuit	
Voltage	DC24V	AC110V	AC220V	DC24	AC110V	DC4~8V	DC24V	AC110V
Current range	5~50mA	5~25mA	5~12.5mA	5~50mA	5~25mA	20mA	50mA	20mA
Contact protection circuit	None							
Internal voltage drop	≤ 2.4V					≤ 0.8V	0V	
Indicator lamp	Red LED						None	
Wire length	1m (Standard), 3m, 5m							

## Weight

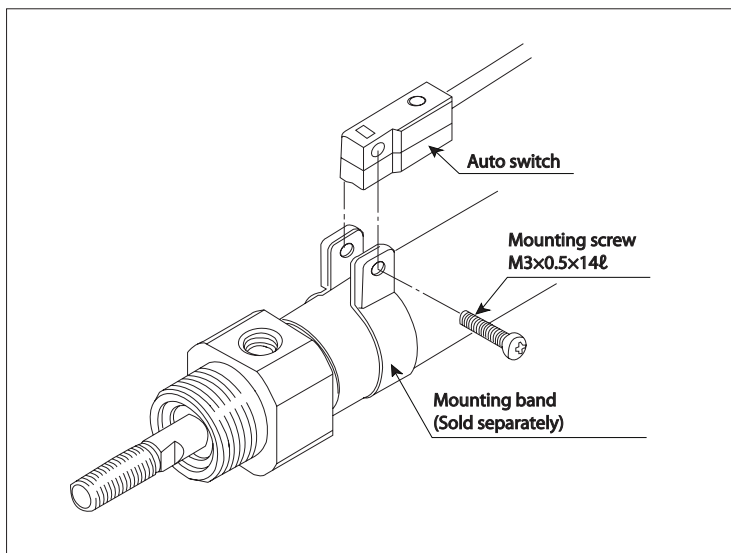
Unit: g

Model	D-C72K, D-C73K	
Wire length (m)	1	16
	3	44
	5	72

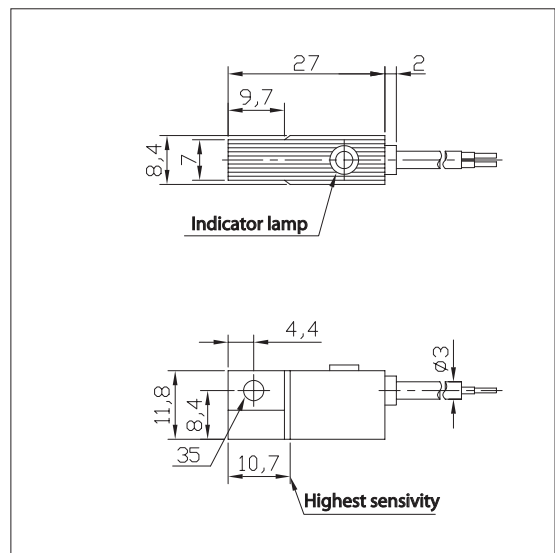
## Circuit Diagram



## Mounting



## Dimensions



# D-A72K / D-A73K series



Applicable cylinder
ADF Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125

Symbol

## Specifications

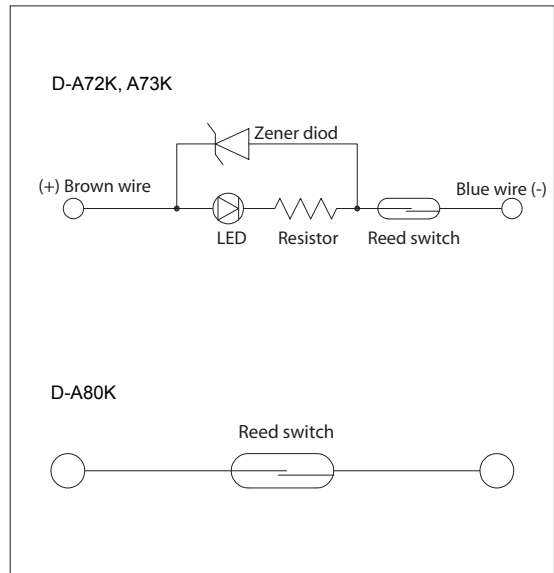
Model	D-A72K			D-A73K		D-A80K	
Application	Relay, PLC			Relay, PLC		Relay, PLC, IC circuit	
Voltage	DC24V	AC110V	AC220V	DC24V	AC110V	DC24V	AC110V
Current range	5~50mA	5~25mA	5~12.5mA	5~50mA	5~25mA	50mA	25mA
Contact protection circuit	None						
Internal voltage drop	≤2.4V					0V	
Indicator lamp	Red LED					None	
Wire length	1m (Standard), 3m, 5m						

## Weight

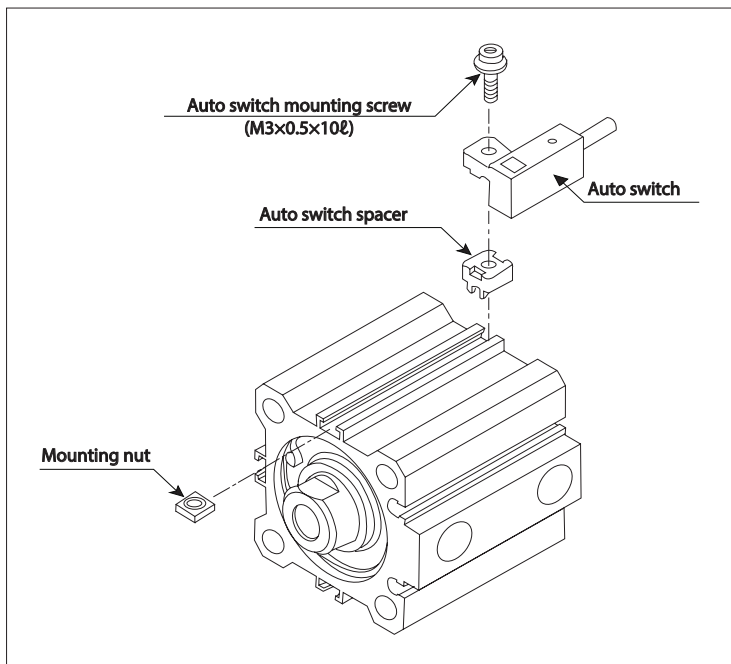
Unit: g

Model	D-A72K		D-A73K	
Wire length(m)	1	16	16	16
	3	46	46	46
	5	76	76	76

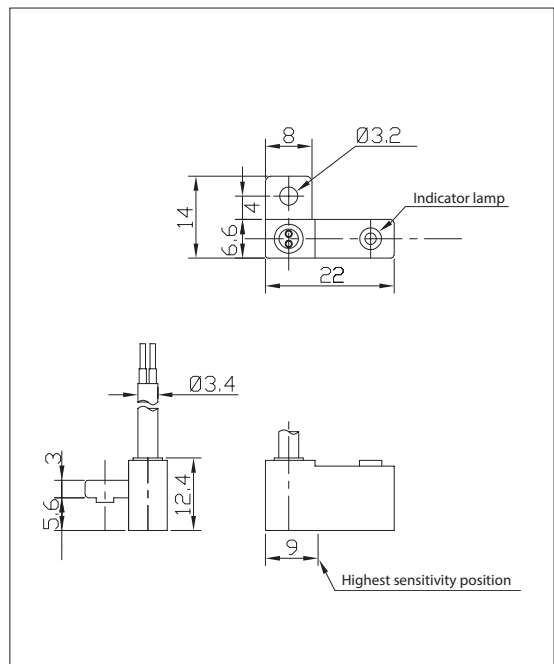
## Circuit Diagram



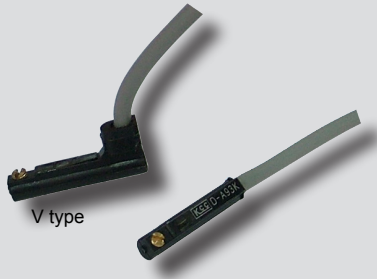
## Mounting



## Dimensions



# D-A93K series



Applicable cylinder	Symbol
Direct attachment/ ADF Ø12,Ø16,Ø20,Ø25,Ø32,Ø40,Ø50,Ø63,Ø80,Ø100,Ø125	
Bracket attachment/ ACM Ø40,Ø50,Ø63,Ø80,Ø100 ACL Ø125,Ø140,Ø150,Ø160 KP70HL/140HL Ø40,Ø50,Ø63,Ø80	

## Specifications

Model	D-A90(V)K		D-A93(V)K		D-A96(V)K
Application	Relay, PLC		Relay, PLC		IC circuit
Voltage	DC24V	AC110V	DC24V	AC110V	DC4~8V
Current range	50mA	20mA	5~40mA	5~20mA	20mA
Contact protection circuit	None				
Internal voltage drop	0V		≤2.7V		≤0.8V
Indicator lamp	None		Red LED		
Wire length	1m (Standard), 3m, 5m				

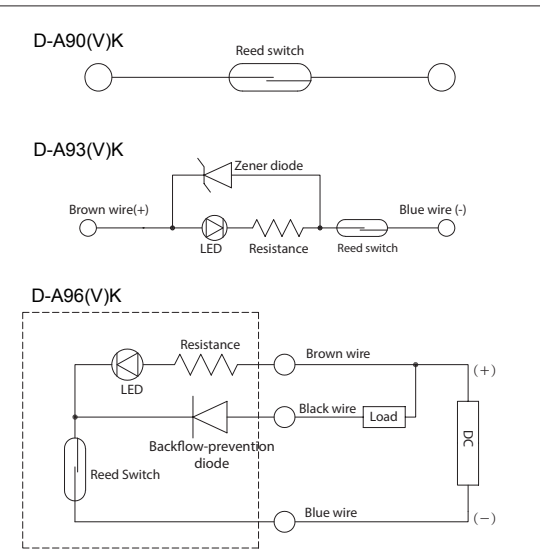
※ V indicates vertical type. (ex. D-A93VK)

## Weight

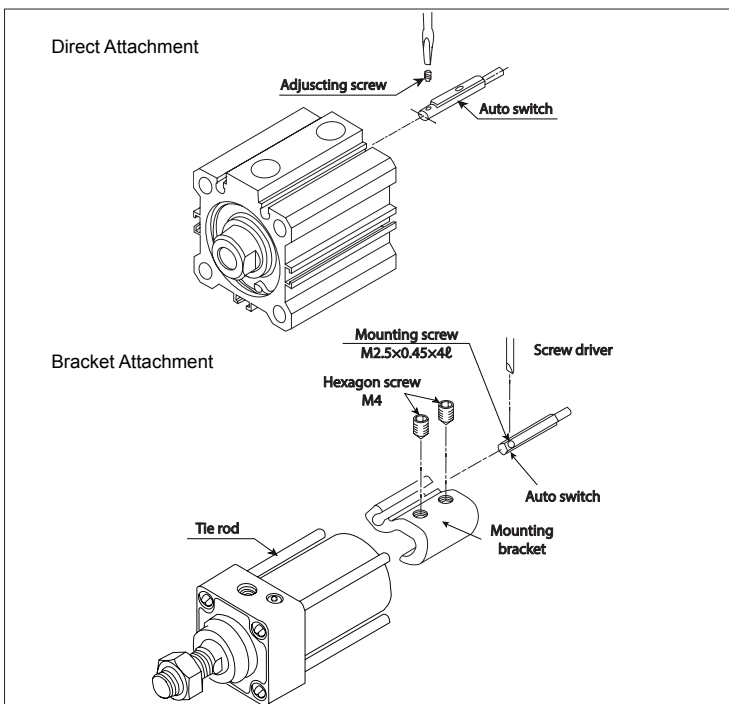
Model	D-A93(V)K	
Wire length(m)	1	10
	3	30
	5	50

Unit: g

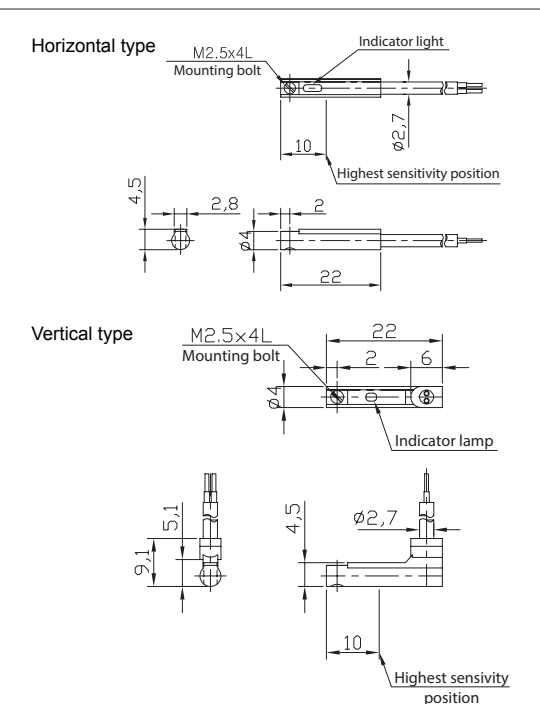
## Circuit Diagram



## Mounting



## Dimensions



# D-A93KN series



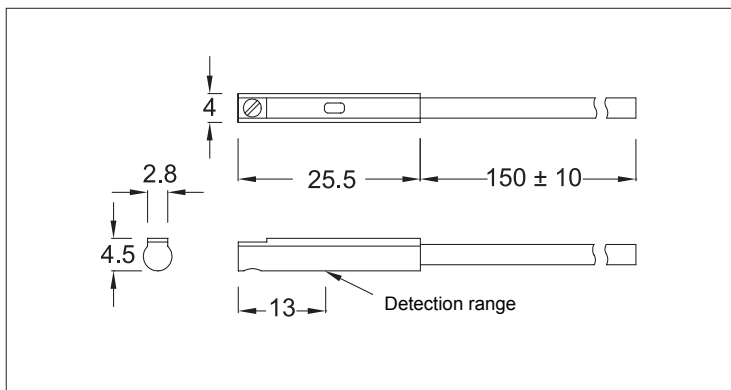
Applicable cylinder	
Direct attachment/ ADF Ø12,Ø16,Ø20,Ø25,Ø32,Ø40,Ø50,Ø63,Ø80,Ø100,Ø125	
Bracket attachment/ ACM Ø40,Ø50,Ø63,Ø80,Ø100 ACL Ø125,Ø140,Ø150,Ø160 KP70HL/140HL Ø40,Ø50,Ø63,Ø80	
Symbol	

## Specifications

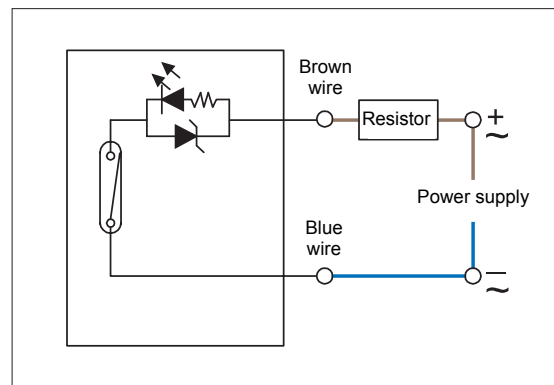
Wiring method	2-wire
Switch logic	SPST, Normally Open
Application	Relay, PLC
Voltage	5~240V AC/DC
Switching current	≤100mA
Contact capacity ※1	≤10W
Internal voltage drop	≤3.5V
Indicator lamp	Green LED
Lead wire	Ø2.8, 2C, PVC
Operating frequency	200Hz
Required magnetic gauss ※2	70Gauss
Ambient Temperature	-10~70°C
Shock resistance ※3	30G
Vibration resistance ※4	9G
Protection Structure	IEC 60529 IP67
Wire length	150mm

- ※1 The contact capacity cannot be exceeded. (P=VxI)
- ※2 Standard target measurement: Ø15.5xØ8xØ5t (anisotropic rubber magnet)
- ※3 Sine wave / X, Y, Z, 3 directions / 3 times in each direction / 11ms each time
- ※4 Double vibration width 1.5mm / 10Hz~55Hz~10Hz (1 minute) / Operating X, Y, Z axis for 1 hour each time

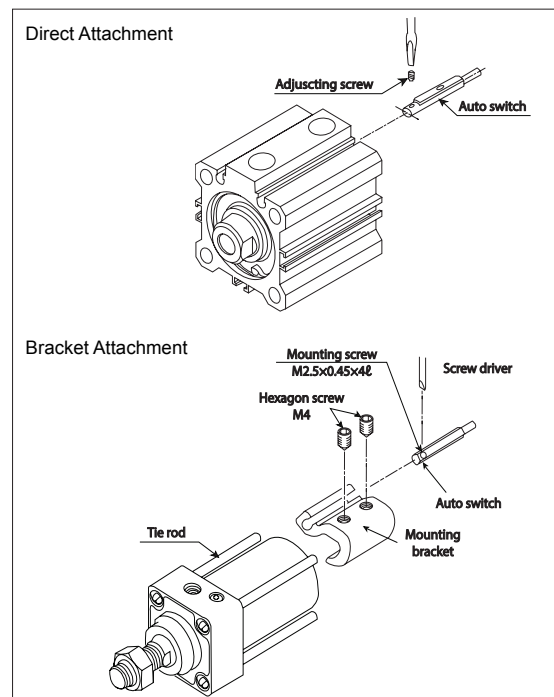
## Dimensions



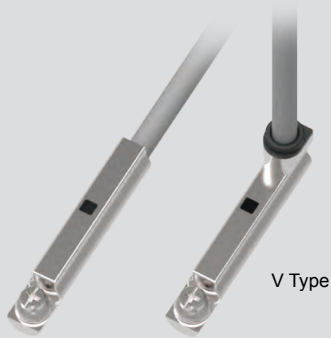
## Circuit Diagram



## Mounting



# D-A93(V)K-S series



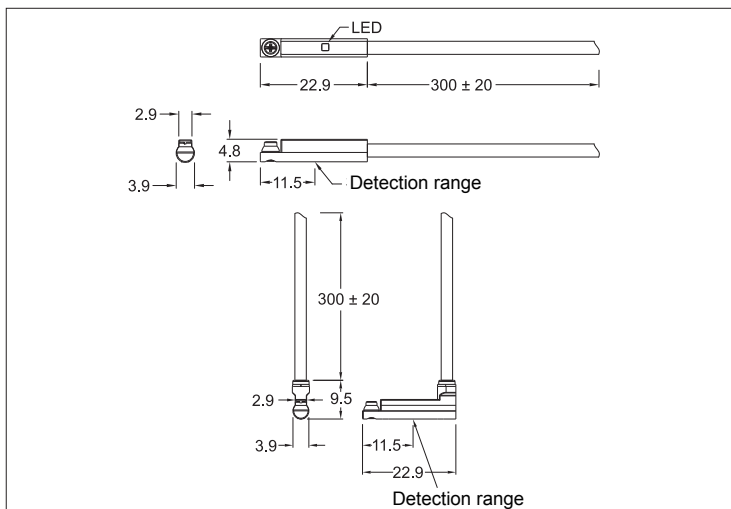
Applicable cylinder	Symbol
Direct attachment/ ADF Ø12,Ø16,Ø20,Ø25,Ø32,Ø40, Ø50,Ø63,Ø80,Ø100,Ø125	
Bracket attachment/ ACM Ø40,Ø50,Ø63,Ø80,Ø100 ACL Ø125,Ø140,Ø150,Ø160 KP70HL/140HL Ø40,Ø50,Ø63,Ø80	

## Specifications

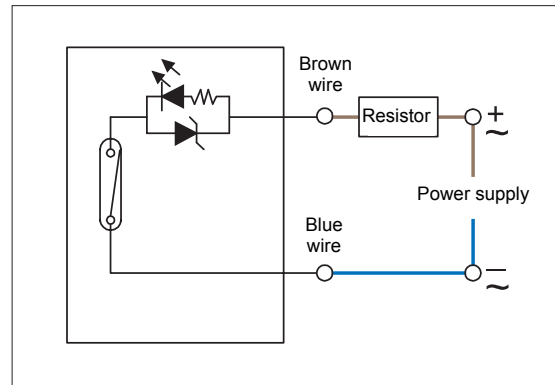
Wiring method	2-wire
Switch logic	SPST, Normally Open
Application	Relay, PLC
Voltage	5~110V AC/DC
Switching current	≤100mA
Contact capacity ※1	≤10W
Internal voltage drop	≤3.5V
Indicator lamp	Red LED
Lead wire	Ø2.6, 2C, PUR
Operating frequency	200Hz
Required magnetic gauss ※2	70Gauss
Ambient Temperature	-10~70°C
Shock resistance ※3	30G
Vibration resistance ※4	9G
Protection Structure	IEC 60529 IP67
Wire length	300mm

- ※1 The contact capacity cannot be exceeded. (P=VxI)
- ※2 Standard target measurement: Ø15.5xØ8xØ5t (anisotropic rubber magnet)
- ※3 Sine wave / X, Y, Z, 3 directions / 3 times in each direction / 11ms each time
- ※4 Double vibration width 1.5mm / 10Hz~55Hz~10Hz (1 minute) / Operating X, Y, Z axis for 1 hour each time

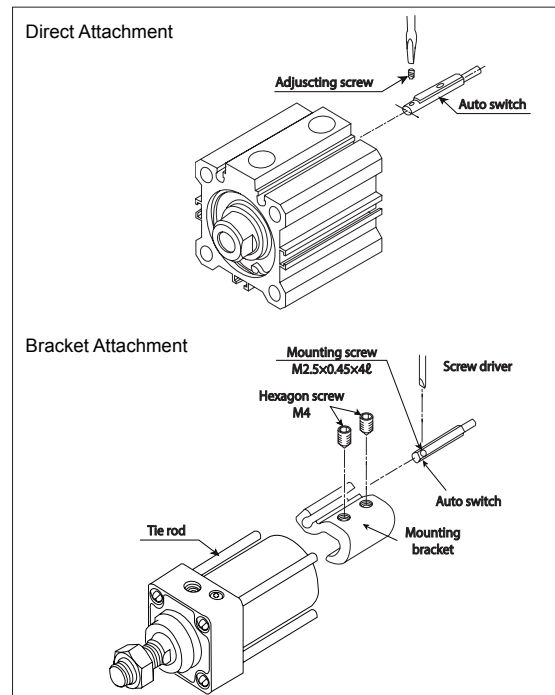
## Dimensions



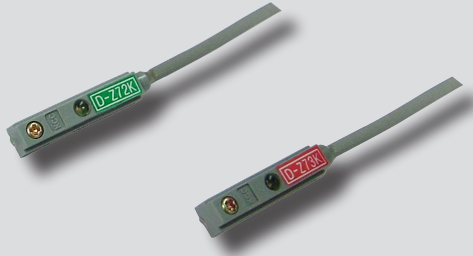
## Circuit Diagram



## Mounting



# D-Z72K / D-Z73K / D-Z82K series



Applicable cylinder	Symbol
KP125A/160A Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80	
AFG Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, 100	

## Specifications

Model	D-Z72K, D-Z82K			D-Z73K		D-Z76K	D-Z80K	
Application	Relay, PLC					IC circuit	Relay, PLC, IC circuit	
Voltage	DC24V	AC110V	AC220V	DC24V	AC110V	DC4~8V	DC24V	AC110V
Current range	5~50mA	5~25mA	5~12.5mA	5~50mA	5~25mA	20mA	50mA	20mA
Contact protection circuit	None							
Internal voltage drop	≤2.4V					≤0.8V	0V	
Indicator lamp	Red LED						None	
Wire length	1m (Standard), 3m, 5m							

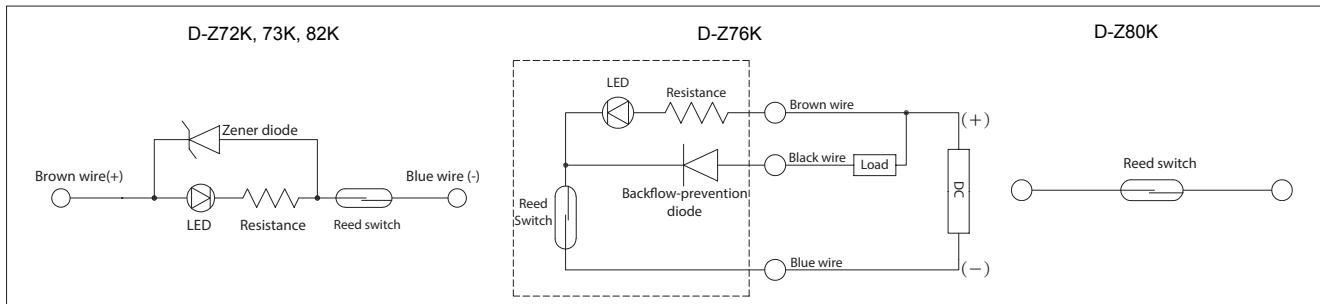
## Weight

Unit: g

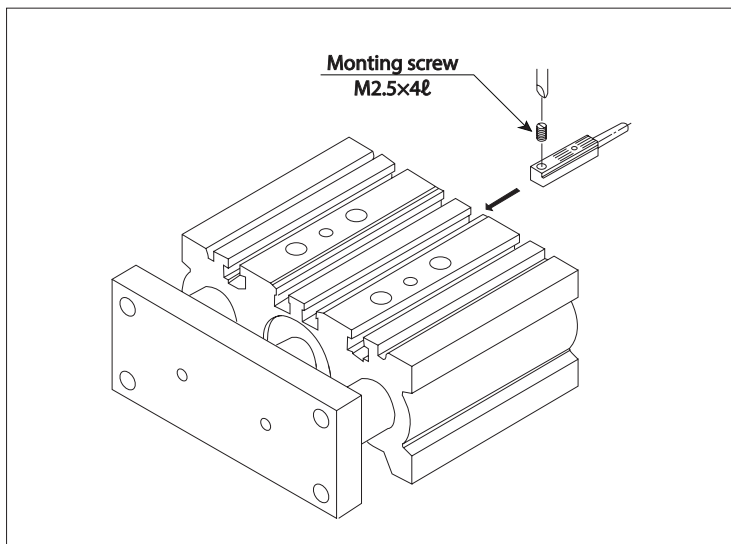
Model	D-Z72K, D-Z73K, D-Z82K	
Wire length (m)	1	12
	3	34
	5	56

※ D-Z82K is auto switch for hydraulic cylinder.

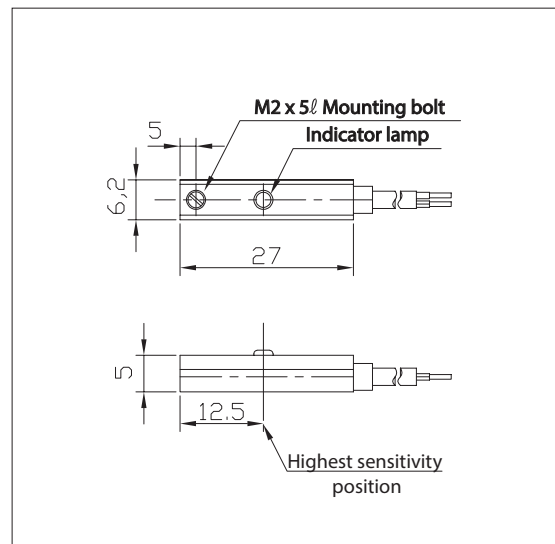
## Circuit Diagram



## Mounting

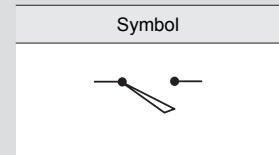


## Dimensions





# MA-1 / MA-2H series



## Specifications

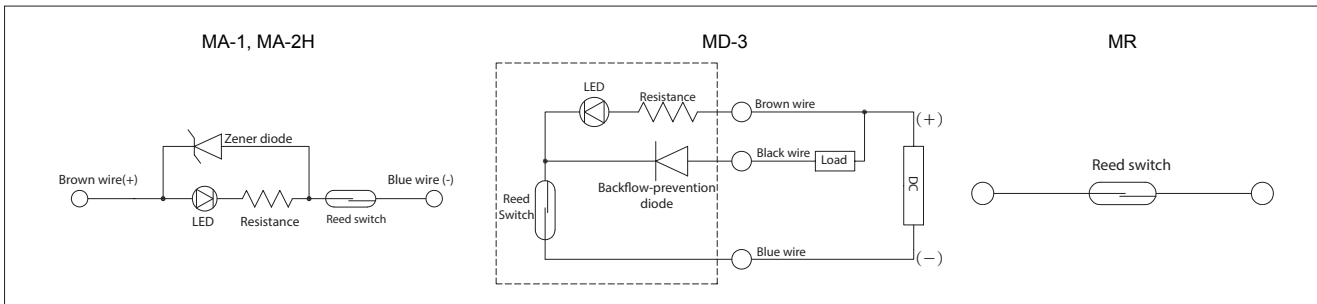
Model	MA-1		MA-2H		MD-3	MR
Application	Relay, PLC				IC circuit	Relay, PLC, IC circuit
Voltage	DC24V	AC110V	DC24V	AC110V~AC220V	DC4~8V	DC24V, AC110V
Current range	5~50mA	5~25mA	5~50mA	5~25mA	≤20mA	
Contact protection circuit	None					
Internal voltage drop	≤2.4V				≤0.8V	0V
Indicator lamp	Red LED					None
Wire length	1m (Standard), 3m, 5m					

## Weight

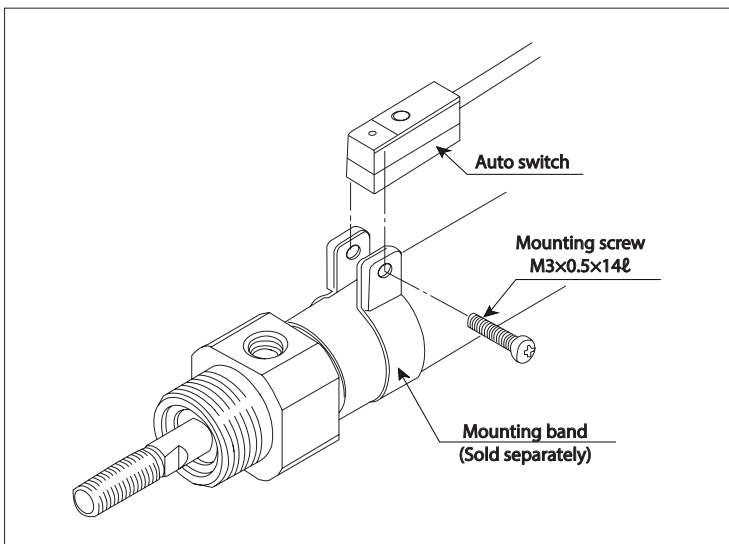
Model		MA-1
Wire length (m)	1	20
	3	70
	5	112

Unit: g

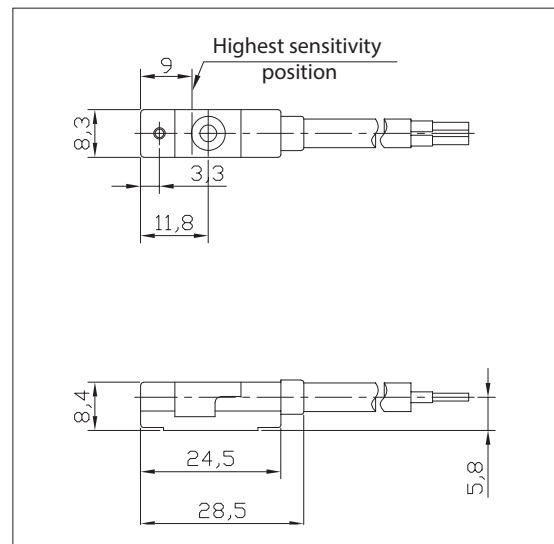
## Circuit Diagram



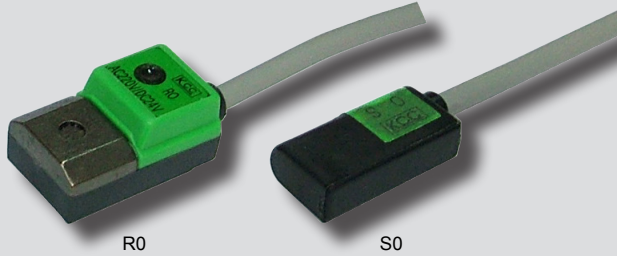
## Mounting



## Dimensions

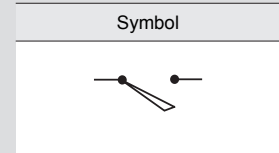


# R0 / S0 series



R0

S0



## Specifications

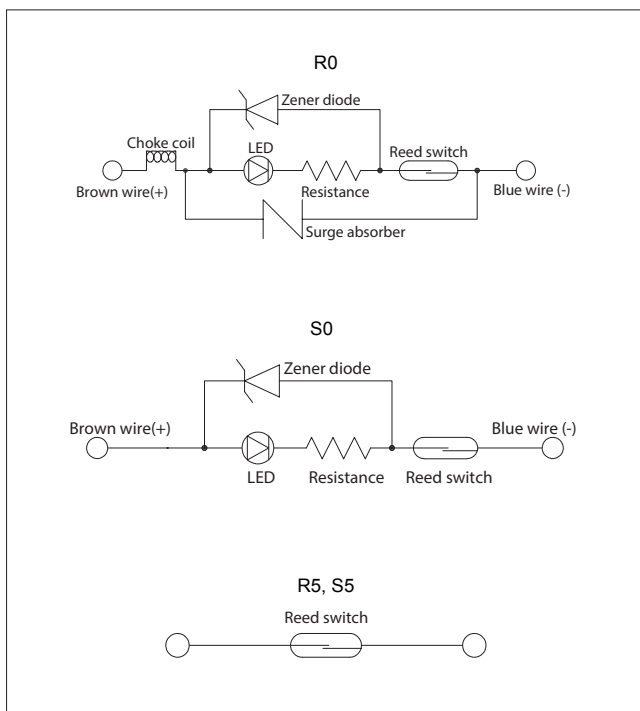
Model	R0			R5		S0		S5	
Application	Relay, PLC			Relay, PLC, IC circuit		Relay, PLC		Relay, PLC, IC circuit	
Voltage	DC24V	AC110V	AC220V	DC24V	AC110V, 220V	DC24	AC110V	DC24V	AC110V, 220V
Current range	5~50mA	5~25mA	5~12.5mA	≤50mA	≤20mA	5~50mA	5~50mA	≤50mA	≤20mA
Contact protection circuit	Built-in			None		Built-in		None	
Internal voltage drop	≤2.4V			0V		≤2.4V		0V	
Indicator lamp	Red LED			None		Red LED		None	
Wire length	1m (Standard), 3m, 5m								

## Weight

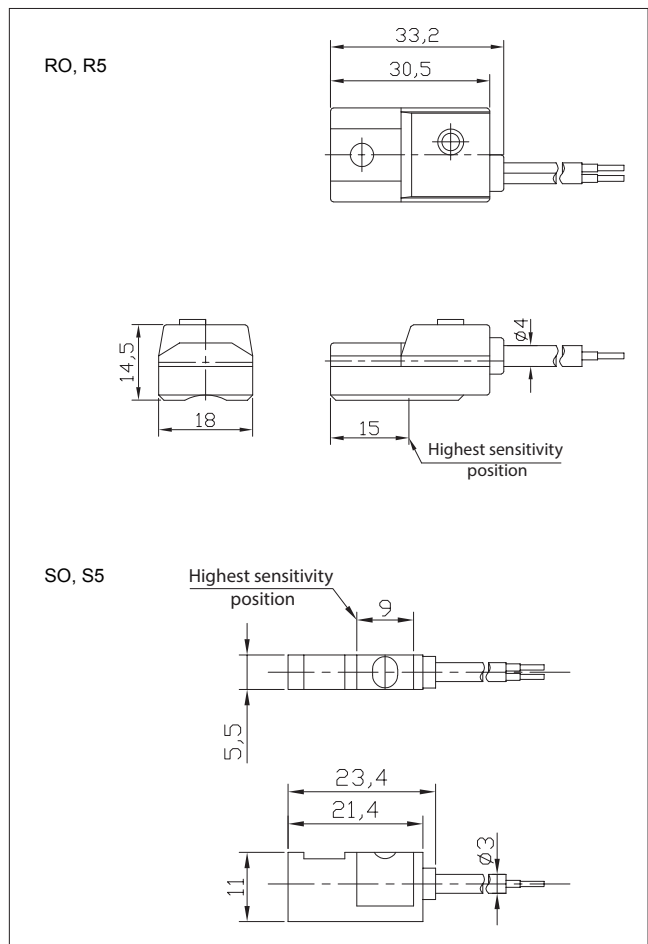
Unit: g

Model		R0	S0
Wire length(m)	1	36	14
	3	86	42
	5	136	70

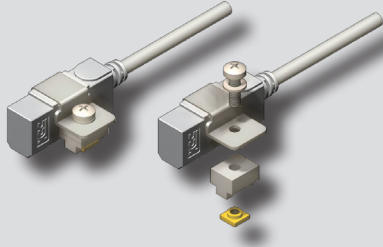
## Circuit Diagram



## Dimensions



# D-HT150D series



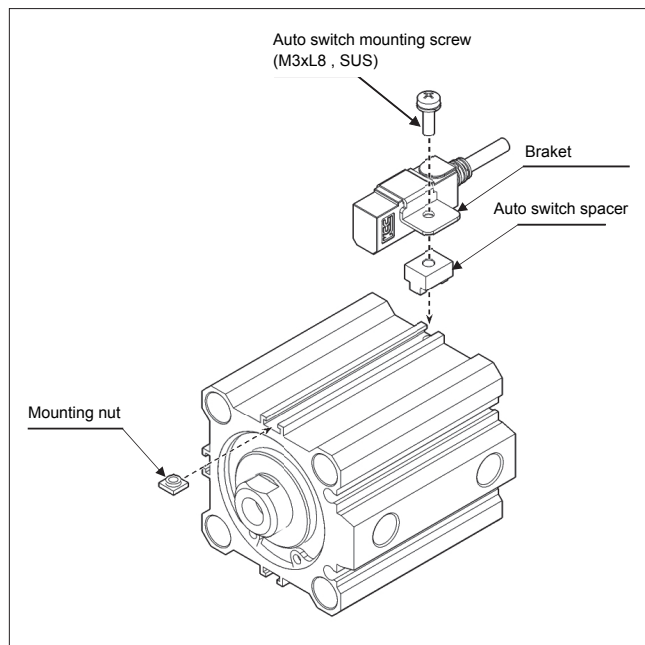
Applicable cylinder
ADF Ø40 ~ Ø160 ADFM Ø40 ~ Ø100

Symbol

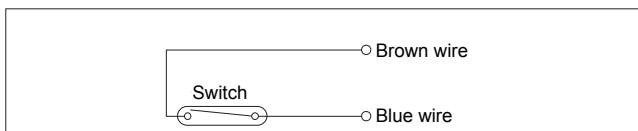
## Specifications

Model	D-HT150D
Contact capacity	10W
Switching current(Max.)	0.5A
Switching voltage(Max.)	VDC100, VAC100
Breakdown voltage(Min.)	VDC150
Operation time(Max.)	0.6ms
Return time(Max.)	0.1ms
Contact resistance	250mΩ
Shock/vibration resistance	30g/20g
Magnetic properties	Pull-In 58~74
Ambient Temperature	-40 ~ 130°C (-50 ~ 130°C)
Wire length	1.5m

## Mounting



## Circuit Diagram



## Dimensions

