

# 04

## MAGNETIC SENSITIVE CYLINDER SENSOR



### Magnetic cylinder sensor - Fits your cylinder perfectly

Compact magnetic cylinder sensors that are perfectly matched to cylinders with different slots. As a result, it can not only be installed flush in different grooves, but also perfectly fitted.

- ◆ Insert from above or side
- ◆ Cable type or plug type
- ◆ Compact design

Y-Twin® — Two sensors share one plug M8 or M12 standard plug

- ◆ With 4-core or 3-core cable
- ◆ Reduce material usage
- ◆ Quick install
- ◆ lower the cost
- ◆ Two switches occupy only one port of functional module/junction box

## MAGNETIC SENSITIVE CYLINDER SENSOR

---

4.1 C -slot

4.2 T -slot

4.3 J -slot

# Magnetic cylinder sensor

## Compact design

# C-slot (Round)

Securely snaps into slot  
The design is perfectly slot-concated, i.e. the sensor can be fully inserted into the slot.

Easy installation and adjustment, fixed elements integrated into the sensor.

It can also be used in space-critical applications with flush mounting where the sensor is "hidden" in the slot.

Optimal solution for mechanical grippers and short-stroke cylinders, mini design (very short)

- Y-Twin - two sensors share one plug
- Save plugs and add value.
  - Two sensors share an electrical interface
  - Flexible detection of multiple positions on pneumatic grippers and cylinders.



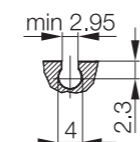
### Technical parameter

Supply voltage $U_b$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms/ $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be inserted from the side
Slot	C-slot(Round)

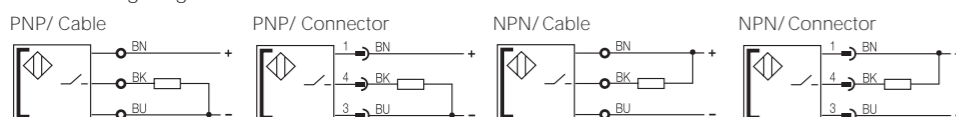
Slot size

C-slot (Round)

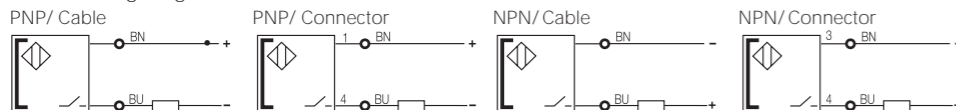
For example: SMC



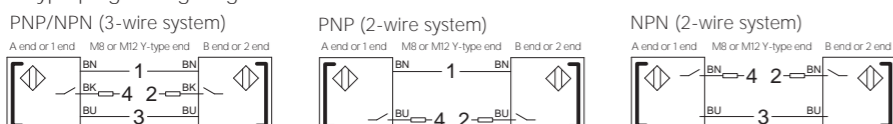
### 3-wire Wiring diagram



### 2-wire Wiring diagram



### Y-type plug Wiring diagram



# Magnetic cylinder sensor

## Compact design

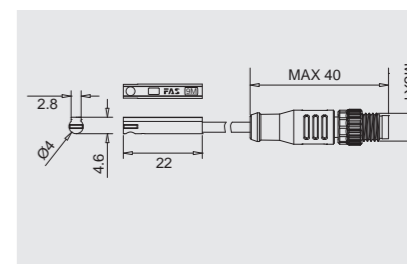


Can be fixed in SMC C-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



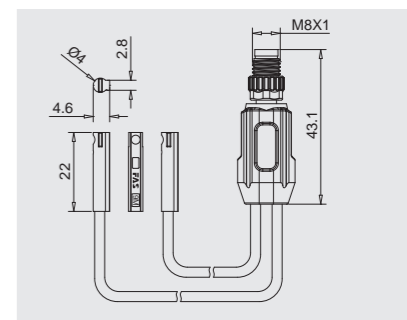
	Part number-xxx	Order code
PNP(Normally open)	FIS-9M-PO-S-E-M8-xxx	<b>4SC001</b> -xxx
NPN(Normally open)	FIS-9M-NO-S-E-M8-xxx	<b>4SC021</b> -xxx
2-wire(PLC module PNP)	FIS-9M-BO-S-E-M8-xxx	<b>4SC023</b> -xxx
2-wire(PLC module NPN)	FIS-9M-DO-S-E-M8-xxx	<b>4SC025</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-9M-PO-D-E-M8Y-xxx	<b>4SC041</b> -xxx
NPN(Normally open)	FIS-9M-NO-D-E-M8Y-xxx	<b>4SC061</b> -xxx
2-wire(PLC module PNP)	FIS-9M-BO-D-E-M8Y-xxx	<b>4SC063</b> -xxx
2-wire(PLC module NPN)	FIS-9M-DO-D-E-M8Y-xxx	<b>4SC065</b> -xxx

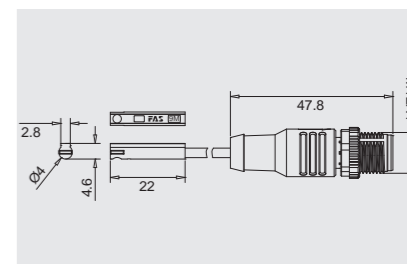


Can be fixed in SMC C-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



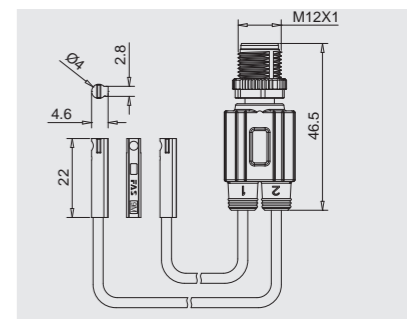
	Part number-xxx	Order code
PNP(Normally open)	FIS-9M-PO-S-E-M12-xxx	<b>4SC081</b> -xxx
NPN(Normally open)	FIS-9M-NO-S-E-M12-xxx	<b>4SC101</b> -xxx
2-wire(PLC module PNP)	FIS-9M-BO-S-E-M12-xxx	<b>4SC103</b> -xxx
2-wire(PLC module NPN)	FIS-9M-DO-S-E-M12-xxx	<b>4SC105</b> -xxx



Connection: Cable with M12 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-9M-PO-D-E-M12Y-xxx	<b>4SC121</b> -xxx
NPN(Normally open)	FIS-9M-NO-D-E-M12Y-xxx	<b>4SC141</b> -xxx
2-wire(PLC module PNP)	FIS-9M-BO-D-E-M12Y-xxx	<b>4SC143</b> -xxx
2-wire(PLC module NPN)	FIS-9M-DO-D-E-M12Y-xxx	<b>4SC145</b> -xxx

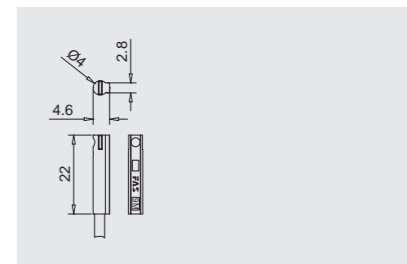


Can be fixed in SMC C-slot, with free cable

Connection: Cable with free end



	Part number-xxx	Order code
PNP(Normally open)	FIS-9M-PO-S-E-OE-xxx	<b>4SC161</b> -xxx
NPN(Normally open)	FIS-9M-NO-S-E-OE-xxx	<b>4SC181</b> -xxx
2-wire	FIS-9M-BO-S-E-OE-xxx	<b>4SC183</b> -xxx



Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m

Recommended accessories (See4.3.03)  
(Please order separately)

# Magnetic cylinder sensor Compact design

Securely snaps into slot  
The design is perfectly slot-concated, i.e. the sensor can be fully inserted into the slot.

Easy installation and adjustment, fixed elements integrated into the sensor.

It can also be used in space-critical applications with flush mounting where the sensor is "hidden" in the slot.

Optimal solution for mechanical grippers and short-stroke cylinders, mini design (very short)

- Y-Twin - two sensors share one plug
- Save plugs and add value.
- Two sensors share an electrical interface
- Flexible detection of multiple positions on pneumatic grippers and cylinders.



## C-slot (Round)



# Magnetic cylinder sensor Compact design

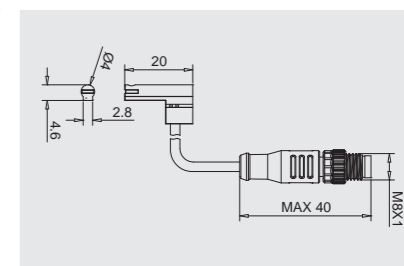


Can be fixed in SMC C-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



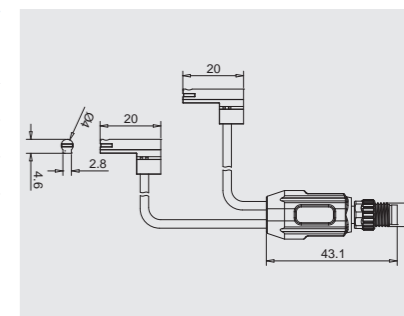
	Part number-xxx	Order code
PNP(Normally open)	FIS-9Q-PO-S-E-M8-xxx	<b>4SC201</b> -xxx
NPN(Normally open)	FIS-9Q-NO-S-E-M8-xxx	<b>4SC221</b> -xxx
2-wire(PLC module PNP)	FIS-9Q-BO-S-E-M8-xxx	<b>4SC223</b> -xxx
2-wire(PLC module NPN)	FIS-9Q-DO-S-E-M8-xxx	<b>4SC225</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-9Q-PO-D-E-M8Y-xxx	<b>4SC241</b> -xxx
NPN(Normally open)	FIS-9Q-NO-D-E-M8Y-xxx	<b>4SC261</b> -xxx
2-wire(PLC module PNP)	FIS-9Q-BO-D-E-M8Y-xxx	<b>4SC263</b> -xxx
2-wire(PLC module NPN)	FIS-9Q-DO-D-E-M8Y-xxx	<b>4SC265</b> -xxx

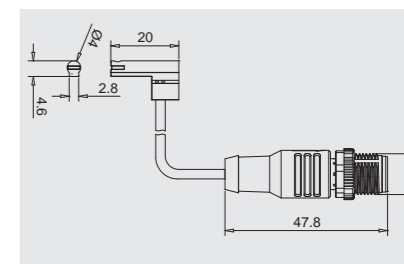


Can be fixed in SMC C-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



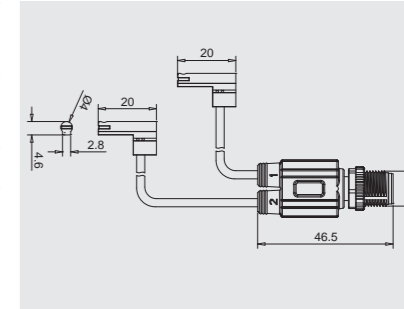
	Part number-xxx	Order code
PNP(Normally open)	FIS-9Q-PO-S-E-M12-xxx	<b>4SC281</b> -xxx
NPN(Normally open)	FIS-9Q-NO-S-E-M12-xxx	<b>4SC301</b> -xxx
2-wire(PLC module PNP)	FIS-9Q-BO-S-E-M12-xxx	<b>4SC303</b> -xxx
2-wire(PLC module NPN)	FIS-9Q-DO-S-E-M12-xxx	<b>4SC305</b> -xxx



Connection: Cable with M12 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-9Q-PO-D-E-M12Y-xxx	<b>4SC321</b> -xxx
NPN(Normally open)	FIS-9Q-NO-D-E-M12Y-xxx	<b>4SC341</b> -xxx
2-wire(PLC module PNP)	FIS-9Q-BO-D-E-M12Y-xxx	<b>4SC343</b> -xxx
2-wire(PLC module NPN)	FIS-9Q-DO-D-E-M12Y-xxx	<b>4SC345</b> -xxx

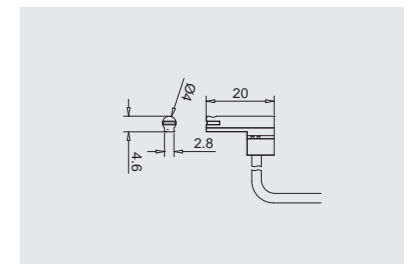


Can be fixed in SMC C-slot, with free cable

Connection: Cable with free end



	Part number-xxx	Order code
PNP(Normally open)	FIS-9Q-PO-S-E-OE-xxx	<b>4SC361</b> -xxx
NPN(Normally open)	FIS-9Q-NO-S-E-OE-xxx	<b>4SC381</b> -xxx
2-wire	FIS-9Q-BO-S-E-OE-xxx	<b>4SC383</b> -xxx



Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m



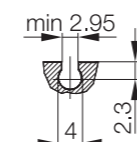
### Technical parameter

Supply voltage $U_b$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms / $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be inserted from the side
Slot	C-slot(Round)

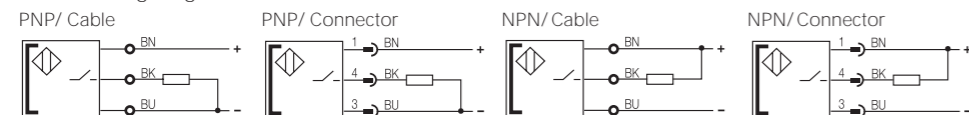
Slot size

C-slot (Round)

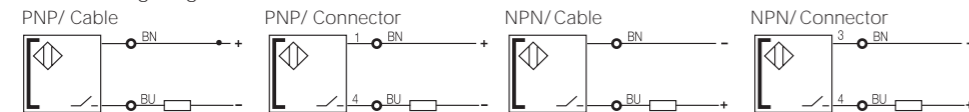
For example: SMC



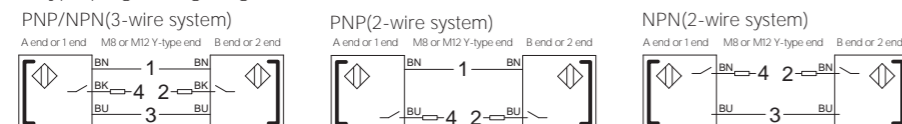
### 3-wire Wiring diagram



### 2-wire Wiring diagram



### Y-type plug Wiring diagram



# Magnetic cylinder sensor Compact design

Securely snaps into slot  
The design is perfectly slot-concated, i.e. the sensor can be fully inserted into the slot.

Easy installation and adjustment, fixed elements integrated into the sensor.

It can also be used in space-critical applications with flush mounting where the sensor is "hidden" in the slot.

Optimal solution for mechanical grippers and short-stroke cylinders, mini design (very short)



## C-slot (Round)



# Magnetic cylinder sensor Compact design

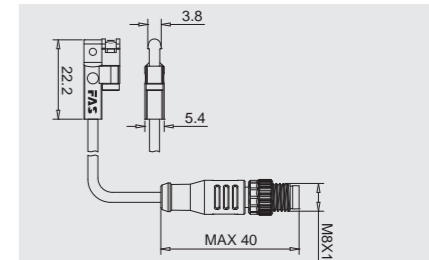


Can be fixed in SMC C-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



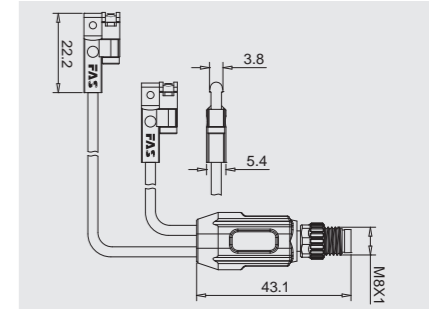
	Part number-xxx	Order code
PNP(Normally open)	FIS-9G-PO-S-E-M8-xxx	<b>4SC401</b> -xxx
NPN(Normally open)	FIS-9G-NO-S-E-M8-xxx	<b>4SC421</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-9G-PO-D-E-M8Y-xxx	<b>4SC441</b> -xxx
NPN(Normally open)	FIS-9G-NO-D-E-M8Y-xxx	<b>4SC461</b> -xxx

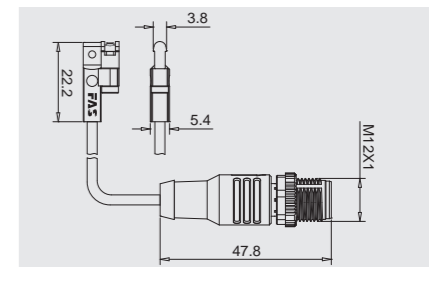


Can be fixed in SMC C-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



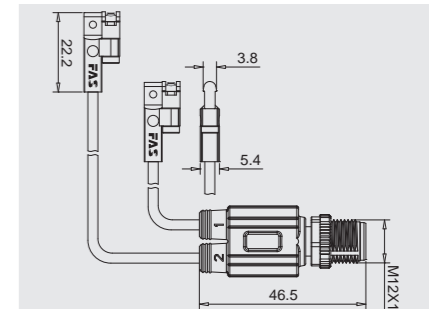
	Part number-xxx	Order code
PNP(Normally open)	FIS-9G-PO-S-E-M12-xxx	<b>4SC481</b> -xxx
NPN(Normally open)	FIS-9G-NO-S-E-M12-xxx	<b>4SC501</b> -xxx



Connection: Cable with M12 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-9G-PO-D-E-M12Y-xxx	<b>4SC521</b> -xxx
NPN(Normally open)	FIS-9G-NO-D-E-M12Y-xxx	<b>4SC541</b> -xxx

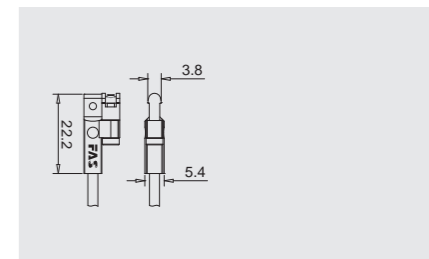


Can be fixed in SMC C-slot, with free cable

Connection: Cable with free end



	Part number-xxx	Order code
PNP(Normally open)	FIS-9G-PO-S-E-OE-xxx	<b>4SC561</b> -xxx
NPN(Normally open)	FIS-9G-NO-S-E-OE-xxx	<b>4SC581</b> -xxx



Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m



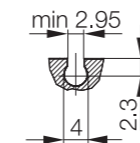
### Technical parameter

Supply voltage $U_b$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms/ $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be inserted from the side
Slot	C-slot(Round)

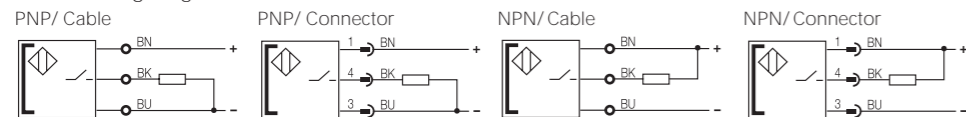
Slot size

C-slot (Round)

For example: SMC

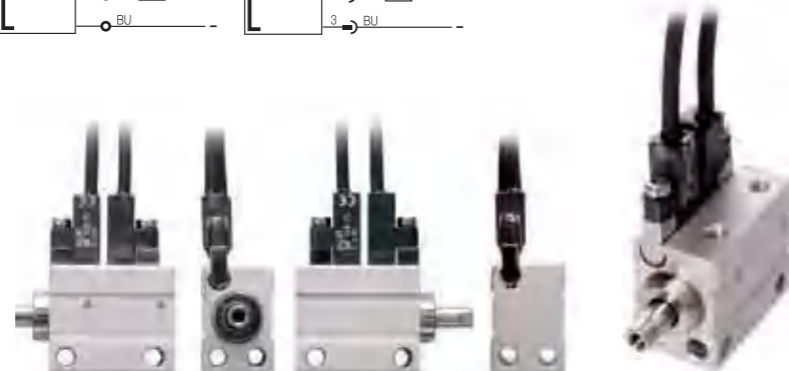
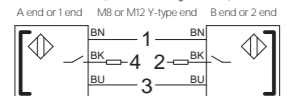


### 3-wire Wiring diagram



### Y-type plug Wiring diagram

PNP/NPN(3-wire system)



04

Magnetic cylinder sensor

Recommended accessories (See4.3.03)  
(Please order separately)

# Magnetic cylinder sensor Compact design

T-slot



# Magnetic cylinder sensor Compact design



Can be installed from above. It can be easily installed with an Allen wrench or slotted screwdriver.

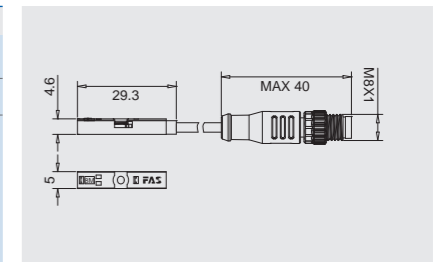


Can be fixed in Festo&SMC T-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



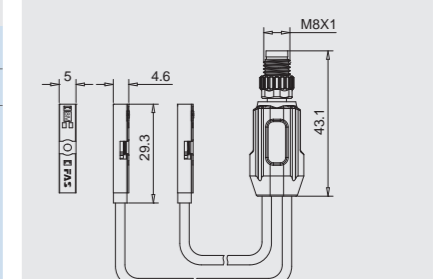
	Part number-xxx	Order code
PNP(Normally open)	FIS-8M-PO-S-E-M8-xxx	<b>4FT001</b> -xxx
NPN(Normally open)	FIS-8M-NO-S-E-M8-xxx	<b>4FT021</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-8M-PO-D-E-M8Y-xxx	<b>4FT041</b> -xxx
NPN(Normally open)	FIS-8M-NO-D-E-M8Y-xxx	<b>4FT061</b> -xxx

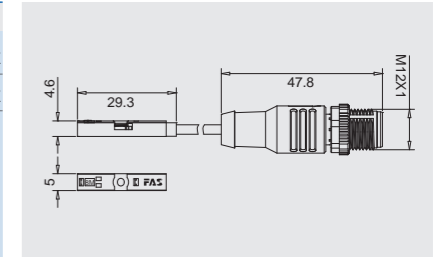


Can be fixed in Festo&SMC T-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



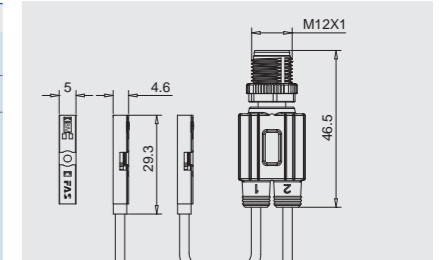
	Part number-xxx	Order code
PNP(Normally open)	FIS-8M-PO-S-E-M12-xxx	<b>4FT081</b> -xxx
NPN(Normally open)	FIS-8M-NO-S-E-M12-xxx	<b>4FT101</b> -xxx



Connection: Cable with M12 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-8M-PO-D-E-M12Y-xxx	<b>4FT121</b> -xxx
NPN(Normally open)	FIS-8M-NO-D-E-M12Y-xxx	<b>4FT141</b> -xxx

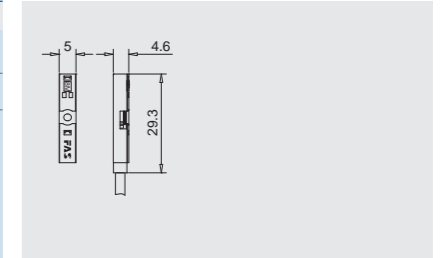


Can be fixed in Festo&SMC T-slot, with free end cable

Connection: Cable with free end



	Part number-xxx	Order code
PNP(Normally open)	FIS-8M-PO-S-E-OE-xxx	<b>4FT161</b> -xxx
NPN(Normally open)	FIS-8M-NO-S-E-OE-xxx	<b>4FT181</b> -xxx



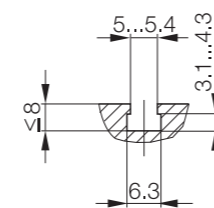
Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m

## Technical parameter

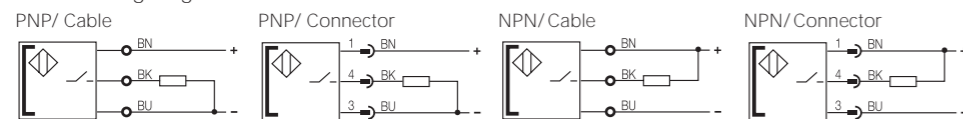
Supply voltage $U_b$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms/ $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be installed from above
Slot	T-slot

Slot size

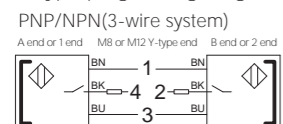
T-slot  
For example: Festo



## 3-wire Wiring diagram



## Y-type plug Wiring diagram



04  
Magnetic cylinder sensor

Recommended accessories (See4.3.03)  
(Please order separately)

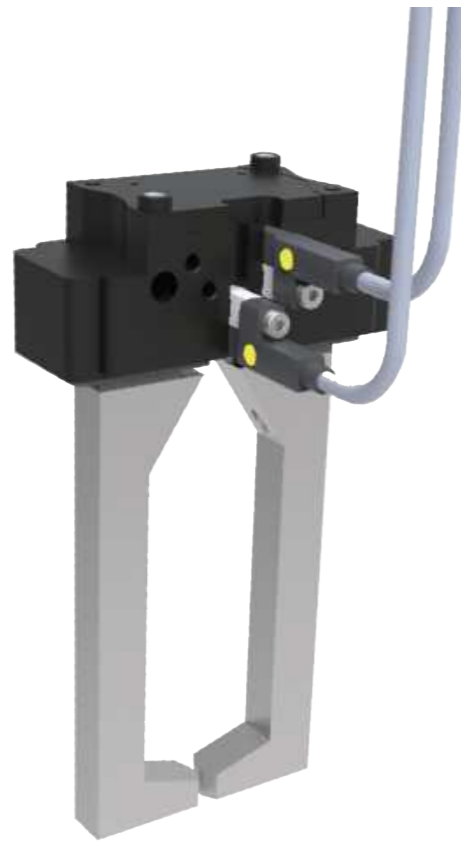
# Magnetic cylinder sensor Compact design

Securely snaps into slot  
The design is perfectly slot-concated, i.e. the sensor can be fully inserted into the slot.

Easy installation and adjustment, fixed elements integrated into the sensor.

It can also be used in space-critical applications with flush mounting where the sensor is "hidden" in the slot.

Optimal solution for mechanical grippers and short-stroke cylinders, mini design (very short)



T-slot



# Magnetic cylinder sensor Compact design

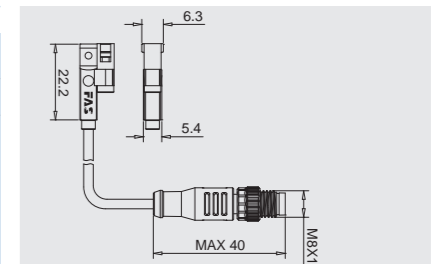


Can be fixed in Festo T-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



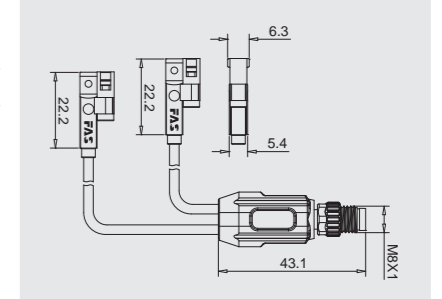
	Part number-xxx	Order code
PNP(Normally open)	FIS-8G-PO-S-E-M8-xxx	<b>4FT201</b> -xxx
NPN(Normally open)	FIS-8G-NO-S-E-M8-xxx	<b>4FT221</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-8G-PO-D-E-M8Y-xxx	<b>4FT241</b> -xxx
NPN(Normally open)	FIS-8G-NO-D-E-M8Y-xxx	<b>4FT261</b> -xxx

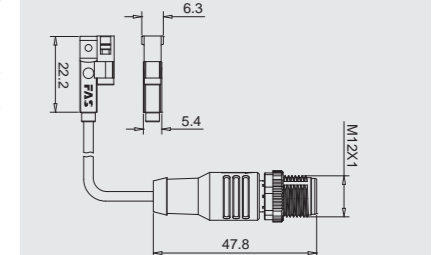


Can be fixed in Festo T-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



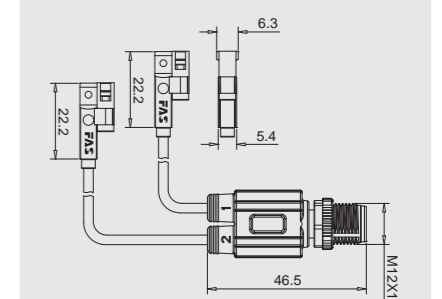
	Part number-xxx	Order code
PNP(Normally open)	FIS-8G-PO-S-E-M12-xxx	<b>4FT281</b> -xxx
NPN(Normally open)	FIS-8G-NO-S-E-M12-xxx	<b>4FT301</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-8G-PO-D-E-M12Y-xxx	<b>4FT321</b> -xxx
NPN(Normally open)	FIS-8G-NO-D-E-M12Y-xxx	<b>4FT341</b> -xxx

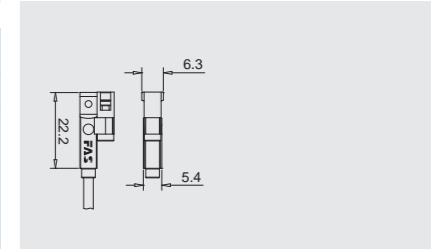


Can be fixed in Festo T-slot, with free end cable

Connection: Cable with free end



	Part number-xxx	Order code
PNP(Normally open)	FIS-8G-PO-S-E-OE-xxx	<b>4FT361</b> -xxx
NPN(Normally open)	FIS-8G-NO-S-E-OE-xxx	<b>4FT381</b> -xxx



Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m



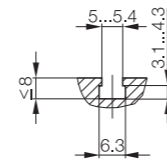
## Technical parameter

Supply voltage $U_b$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms/ $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be inserted from the side
Slot	T-slot

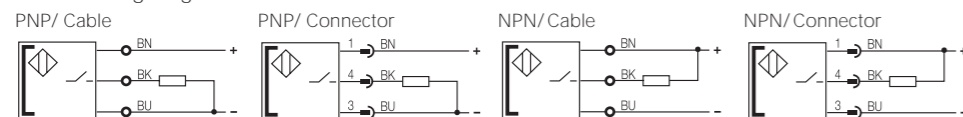
Slot size

T-slot

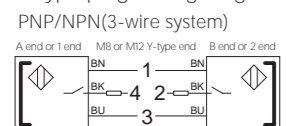
For example: Festo, Jaws



## 3-wire Wiring diagram



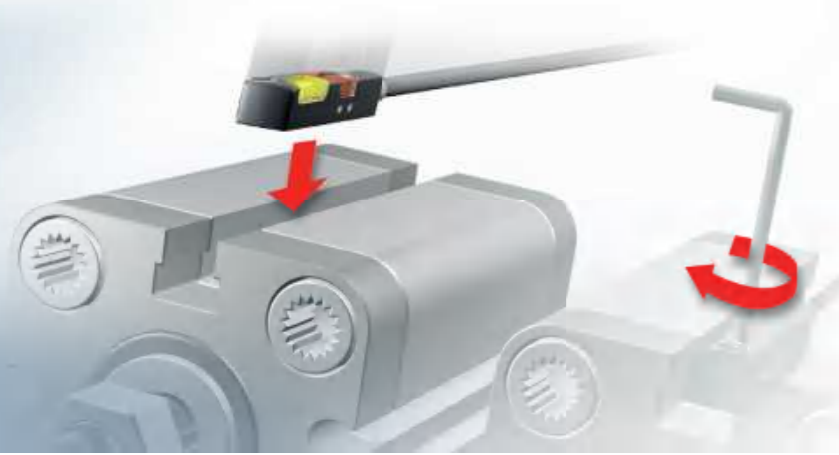
## Y-type plug Wiring diagram



Magnetic cylinder sensor  
Compact design

C-slot (No. 10 slot)

Can be installed from above. It can be easily installed with an Allen wrench or slotted screwdriver.

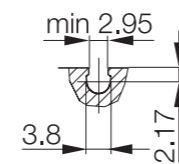


Technical parameter

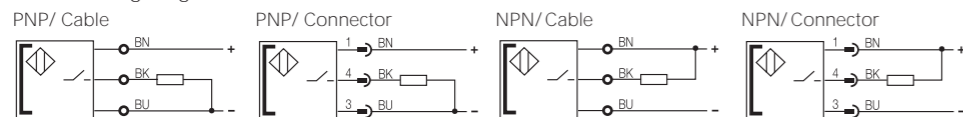
Supply voltage $U_s$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms/ $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be installed from above
Slot	C-Slot (Slot 10)

Slot size

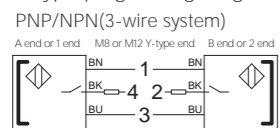
C-slot (No. 10 slot)  
For example: Festo



3-wire Wiring diagram



Y-type plug Wiring diagram



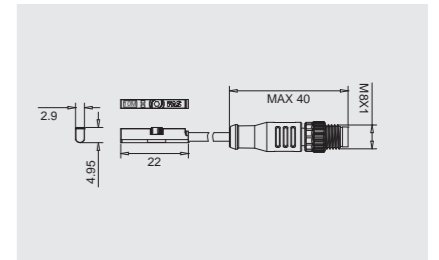
Magnetic cylinder sensor  
Compact design

Can be fixed in Festo C-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



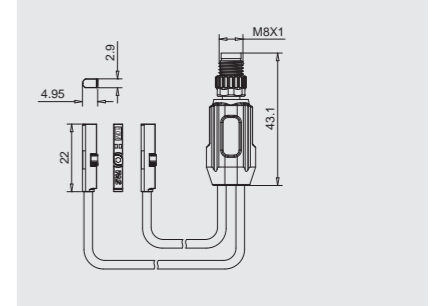
	Part number-xxx	Order code
PNP(Normally open)	FIS-10M-PO-S-E-M8-xxx	<b>4FC001</b> -xxx
NPN(Normally open)	FIS-10M-NO-S-E-M8-xxx	<b>4FC021</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-10M-PO-D-E-M8Y-xxx	<b>4FC041</b> -xxx
NPN(Normally open)	FIS-10M-NO-D-E-M8Y-xxx	<b>4FC061</b> -xxx

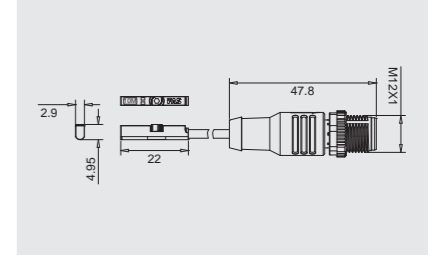


Can be fixed in Festo C-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



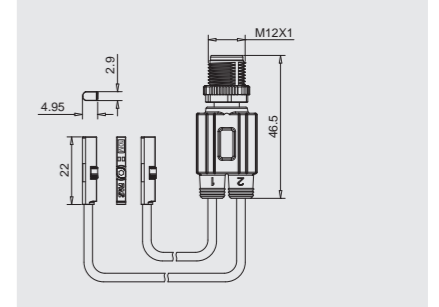
	Part number-xxx	Order code
PNP(Normally open)	FIS-10M-PO-S-E-M12-xxx	<b>4FC081</b> -xxx
NPN(Normally open)	FIS-10M-NO-S-E-M12-xxx	<b>4FC101</b> -xxx



Connection: Cable with M12 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-10M-PO-D-E-M12Y-xxx	<b>4FC121</b> -xxx
NPN(Normally open)	FIS-10M-NO-D-E-M12Y-xxx	<b>4FC141</b> -xxx

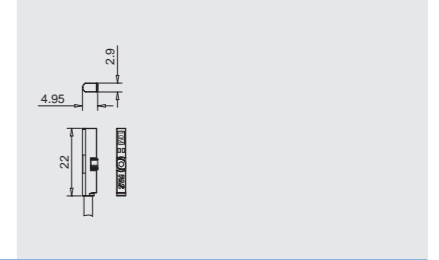


Can be fixed in Festo C-slot, with free end cable

Connection: Cable with free end



	Part number-xxx	Order code
PNP(Normally open)	FIS-10M-PO-S-E-OE-xxx	<b>4FC161</b> -xxx
NPN(Normally open)	FIS-10M-NO-S-E-OE-xxx	<b>4FC181</b> -xxx



Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m

Recommended accessories (See4.3.03)  
(Please order separately)

# Magnetic cylinder sensor Compact design



Securely snaps into slot  
The design is perfectly slot-concated, i.e. the sensor can be fully inserted into the slot.

Easy installation and adjustment, fixed elements integrated into the sensor.

It can also be used in space-critical applications with flush mounting where the sensor is "hidden" in the slot.

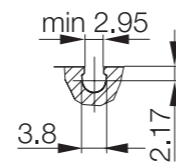
Optimal solution for mechanical grippers and short-stroke cylinders, mini design (very short)

## Technical parameter

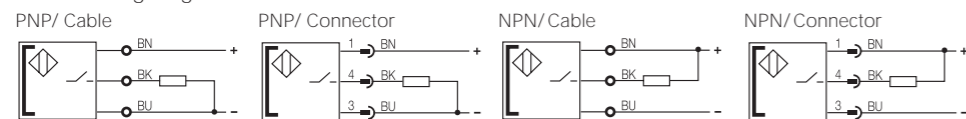
Supply voltage $U_b$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms/ $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be inserted from the side
Slot	C-slot (slot 10)

## Slot size

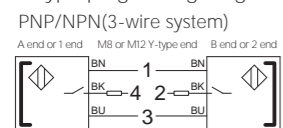
C-slot (10-slot)  
For example: Festo, SCHUNK, ZIMMER Jaws



## 3-wire Wiring diagram



## Y-type plug Wiring diagram



# Magnetic cylinder sensor Compact design

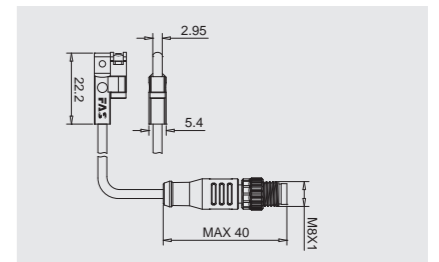


Can be fixed in Festo C-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



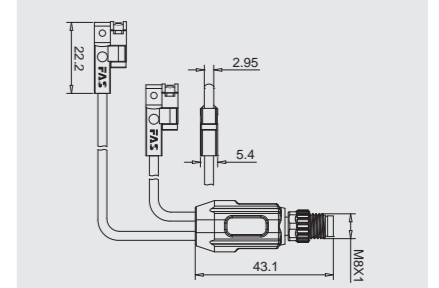
	Part number-xxx	Order code
PNP(Normally open)	FIS-10G-PO-S-E-M8-xxx	<b>4FC201</b> -xxx
NPN(Normally open)	FIS-10G-NO-S-E-M8-xxx	<b>4FC221</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-10G-PO-D-E-M8Y-xxx	<b>4FC241</b> -xxx
NPN(Normally open)	FIS-10G-NO-D-E-M8Y-xxx	<b>4FC261</b> -xxx

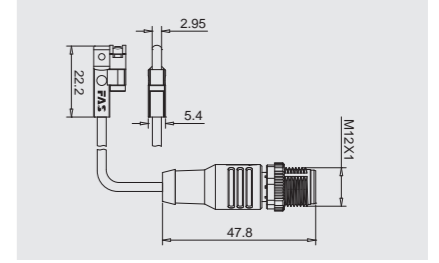


Can be fixed in Festo C-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



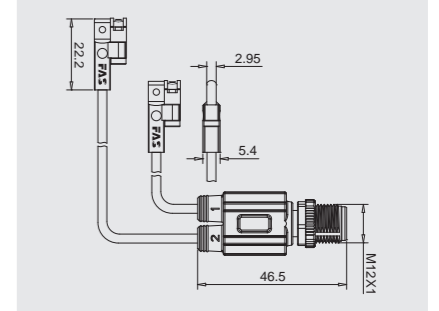
	Part number-xxx	Order code
PNP(Normally open)	FIS-10G-PO-S-E-M12-xxx	<b>4FC281</b> -xxx
NPN(Normally open)	FIS-10G-NO-S-E-M12-xxx	<b>4FC301</b> -xxx



Connection: Cable with M12 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-10G-PO-D-E-M12Y-xxx	<b>4FC321</b> -xxx
NPN(Normally open)	FIS-10G-NO-D-E-M12Y-xxx	<b>4FC341</b> -xxx

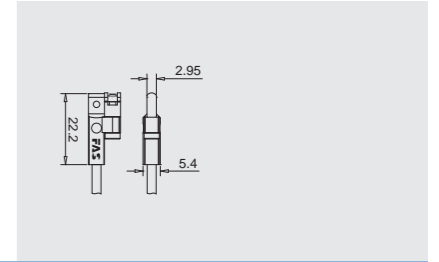


Can be fixed in Festo C-slot, with free end cable

Connection: Cable with free end



	Part number-xxx	Order code
PNP(Normally open)	FIS-10G-PO-S-E-OE-xxx	<b>4FC361</b> -xxx
NPN(Normally open)	FIS-10G-NO-S-E-OE-xxx	<b>4FC381</b> -xxx



Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m

Recommended accessories (See4.3.03)  
(Please order separately)





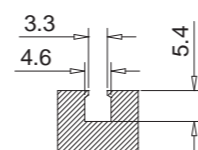
Technical parameter

Supply voltage $U_b$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms/ $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be installed from above
Slot	T-slot

Slot size

T-slot

For example: Air TAC  
G type

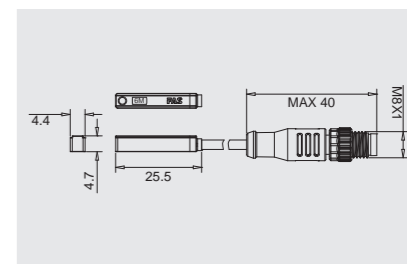


Can be fixed in AirTAC T-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



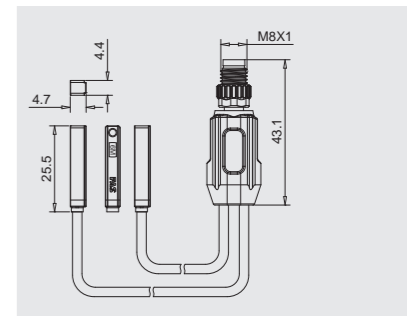
	Part number-xxx	Order code
PNP(Normally open)	FIS-6M-PO-S-E-M8-xxx	<b>6AT001</b> -xxx
NPN(Normally open)	FIS-6M-NO-S-E-M8-xxx	<b>6AT021</b> -xxx
2-wire(PLC module PNP)	FIS-6M-BO-S-E-M8-xxx	<b>6AT023</b> -xxx
2-wire(PLC module NPN)	FIS-6M-DO-S-E-M8-xxx	<b>6AT025</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-6M-PO-D-E-M8Y-xxx	<b>6AT041</b> -xxx
NPN(Normally open)	FIS-6M-NO-D-E-M8Y-xxx	<b>6AT061</b> -xxx
2-wire(PLC module PNP)	FIS-6M-BO-D-E-M8Y-xxx	<b>6AT063</b> -xxx
2-wire(PLC module NPN)	FIS-6M-DO-D-E-M8Y-xxx	<b>6AT065</b> -xxx

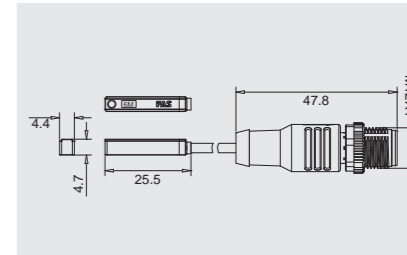


Can be fixed in AirTAC T-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



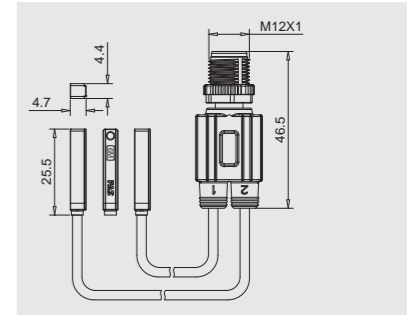
	Part number-xxx	Order code
PNP(Normally open)	FIS-6M-PO-S-E-M12-xxx	<b>6AT081</b> -xxx
NPN(Normally open)	FIS-6M-NO-S-E-M12-xxx	<b>6AT101</b> -xxx
2-wire(PLC module PNP)	FIS-6M-BO-S-E-M12-xxx	<b>6AT103</b> -xxx
2-wire(PLC module NPN)	FIS-6M-DO-S-E-M12-xxx	<b>6AT105</b> -xxx



Connection: Cable with M12 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-6M-PO-D-E-M12Y-xxx	<b>6AT121</b> -xxx
NPN(Normally open)	FIS-6M-NO-D-E-M12Y-xxx	<b>6AT141</b> -xxx
2-wire(PLC module PNP)	FIS-6M-BO-D-E-M12Y-xxx	<b>6AT143</b> -xxx
2-wire(PLC module NPN)	FIS-6M-DO-D-E-M12Y-xxx	<b>6AT145</b> -xxx

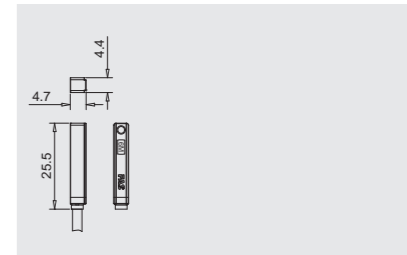


Can be fixed in Festo C-slot, with free end cable

Connection: Cable with free end

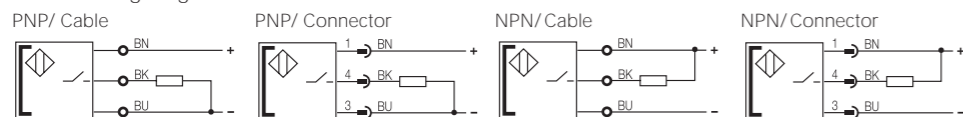


	Part number-xxx	Order code
PNP(Normally open)	FIS-6M-PO-S-E-OE-xxx	<b>6AT161</b> -xxx
NPN(Normally open)	FIS-6M-NO-S-E-OE-xxx	<b>6AT181</b> -xxx
2-wire	FIS-6M-BO-S-E-OE-xxx	<b>6AT183</b> -xxx

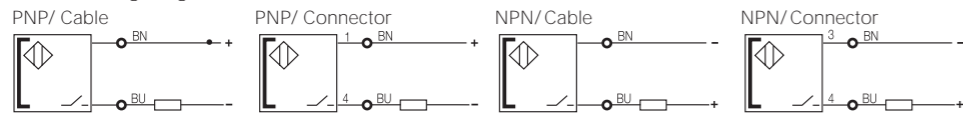


Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m

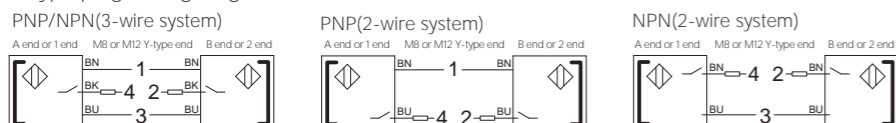
3-wire Wiring diagram



2-wire Wiring diagram



Y-type plug Wiring diagram



Magnetic cylinder sensor  
Compact design



T-slot



Magnetic cylinder sensor  
Compact design



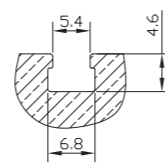
Technical parameter

Supply voltage $U_b$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms/ $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be installed from above
Slot	$\varnothing 5$ T-slot

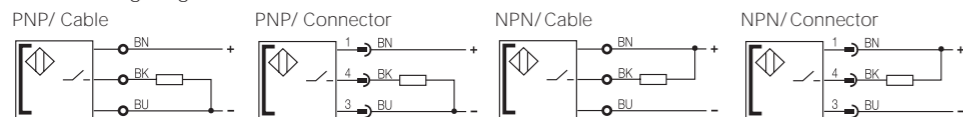
Slot size

T-slot

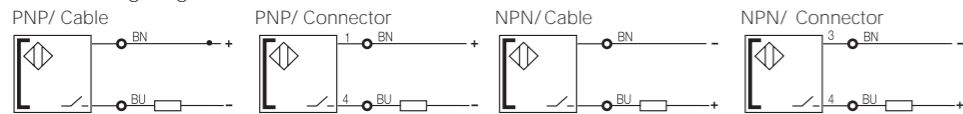
For example: Air TAC E type



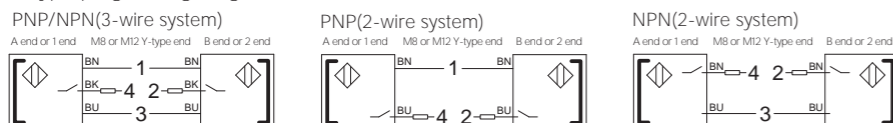
3-wire Wiring diagram



2-wire Wiring diagram



Y-type plug Wiring diagram

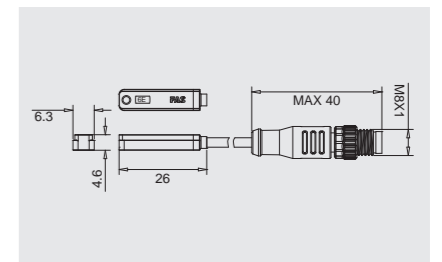


Can be fixed in AirTAC T-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



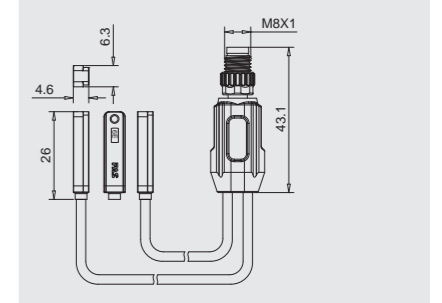
	Part number-xxx	Order code
PNP(Normally open)	FIS-6E-PO-S-E-M8-xxx	<b>6AE001</b> -xxx
NPN(Normally open)	FIS-6E-NO-S-E-M8-xxx	<b>6AE021</b> -xxx
2-wire(PLC module PNP)	FIS-6E-BO-S-E-M8-xxx	<b>6AE023</b> -xxx
2-wire(PLC module NPN)	FIS-6E-DO-S-E-M8-xxx	<b>6AE025</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-6E-PO-D-E-M8Y-xxx	<b>6AE041</b> -xxx
NPN(Normally open)	FIS-6E-NO-D-E-M8Y-xxx	<b>6AE061</b> -xxx
2-wire(PLC module PNP)	FIS-6E-BO-D-E-M8Y-xxx	<b>6AE063</b> -xxx
2-wire(PLC module NPN)	FIS-6E-DO-D-E-M8Y-xxx	<b>6AE065</b> -xxx

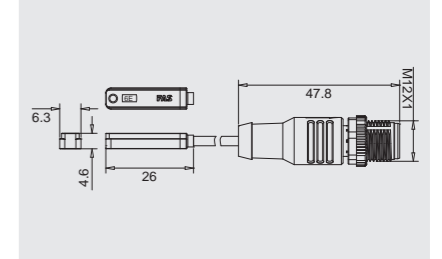


Can be fixed in AirTAC T-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



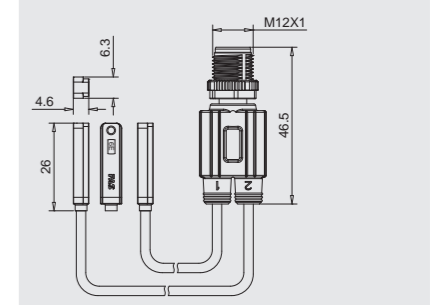
	Part number-xxx	Order code
PNP(Normally open)	FIS-6E-PO-S-E-M12-xxx	<b>6AE081</b> -xxx
NPN(Normally open)	FIS-6E-NO-S-E-M12-xxx	<b>6AE101</b> -xxx
2-wire(PLC module PNP)	FIS-6E-BO-S-E-M12-xxx	<b>6AE103</b> -xxx
2-wire(PLC module NPN)	FIS-6E-DO-S-E-M12-xxx	<b>6AE105</b> -xxx



Connection: Cable with M12 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-6E-PO-D-E-M12Y-xxx	<b>6AE121</b> -xxx
NPN(Normally open)	FIS-6E-NO-D-E-M12Y-xxx	<b>6AE141</b> -xxx
2-wire(PLC module PNP)	FIS-6E-BO-D-E-M12Y-xxx	<b>6AE143</b> -xxx
2-wire(PLC module NPN)	FIS-6E-DO-D-E-M12Y-xxx	<b>6AE145</b> -xxx

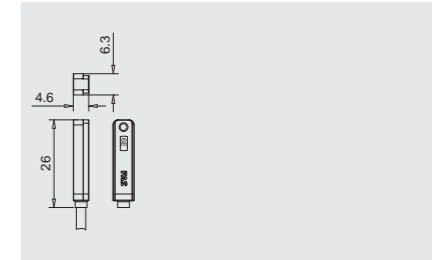


Can be fixed in Festo C-slot, with free end cable

Connection: Cable with free end



	Part number-xxx	Order code
PNP(Normally open)	FIS-6E-PO-S-E-OE-xxx	<b>6AE161</b> -xxx
NPN(Normally open)	FIS-6E-NO-S-E-OE-xxx	<b>6AE181</b> -xxx
2-wire	FIS-6E-BO-S-E-OE-xxx	<b>6AE183</b> -xxx



Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m

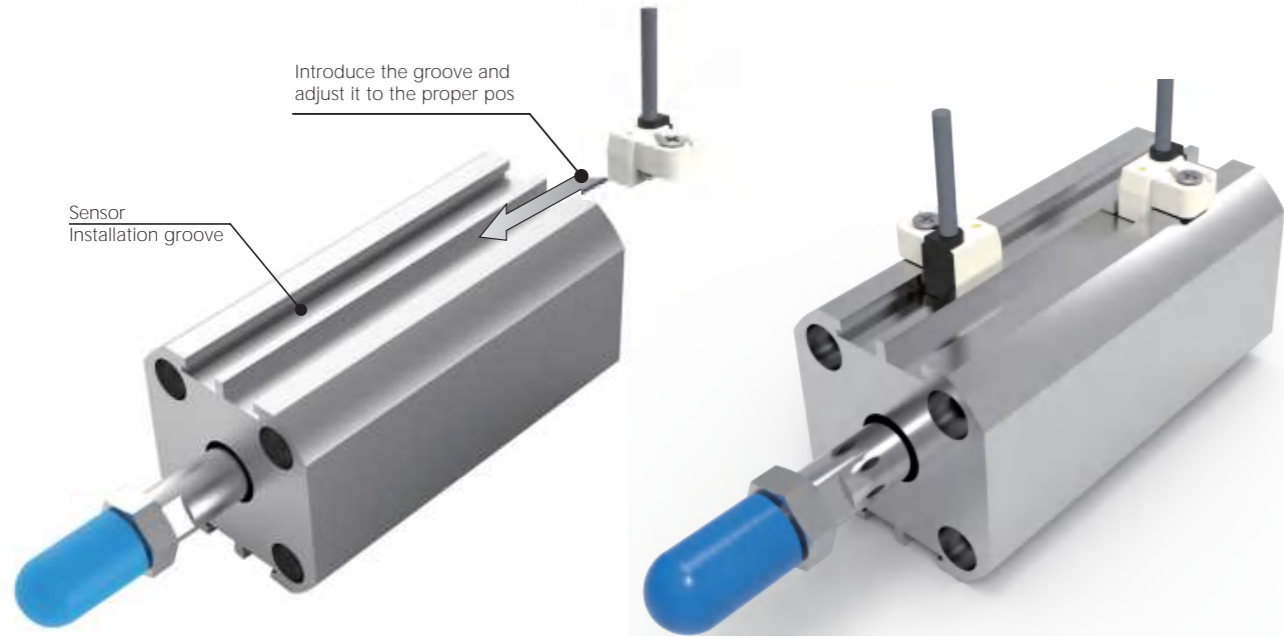
Recommended accessories (See4.3.03)  
(Please order separately)

# Magnetic cylinder sensor Compact design

J-slot



# Magnetic cylinder sensor Compact design

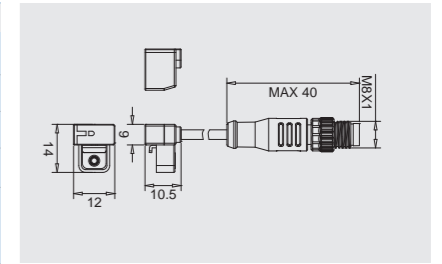


Can be fixed in AirTAC T-slot, with M8 plug

Connection: Cable with M8 plug (3pin)



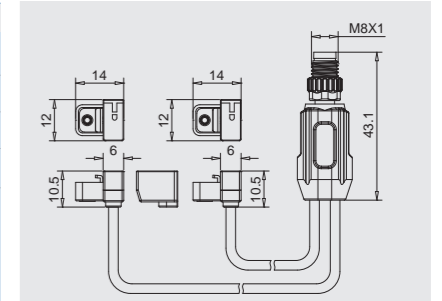
	Part number-xxx	Order code
PNP(Normally open)	FIS-6J-PO-S-E-M8-xxx	<b>6AJ001</b> -xxx
NPN(Normally open)	FIS-6J-NO-S-E-M8-xxx	<b>6AJ021</b> -xxx
2-wire(PLC module PNP)	FIS-6J-BO-S-E-M8-xxx	<b>6AJ023</b> -xxx
2-wire(PLC module NPN)	FIS-6J-DO-S-E-M8-xxx	<b>6AJ025</b> -xxx



Connection: Cable with M8 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-6J-PO-D-E-M8Y-xxx	<b>6AJ041</b> -xxx
NPN(Normally open)	FIS-6J-NO-D-E-M8Y-xxx	<b>6AJ061</b> -xxx
2-wire(PLC module PNP)	FIS-6J-BO-D-E-M8Y-xxx	<b>6AJ063</b> -xxx
2-wire(PLC module NPN)	FIS-6J-DO-D-E-M8Y-xxx	<b>6AJ065</b> -xxx

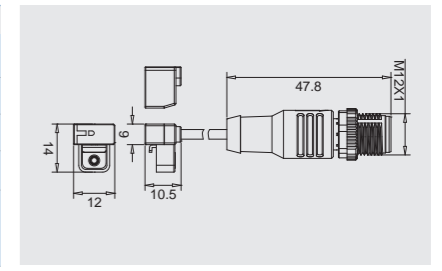


Can be fixed in AirTAC T-slot, with M12 plug

Connection: Cable with M12 plug (3pin)



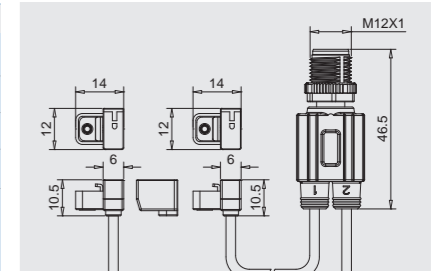
	Part number-xxx	Order code
PNP(Normally open)	FIS-6J-PO-S-E-M12-xxx	<b>6AJ081</b> -xxx
NPN(Normally open)	FIS-6J-NO-S-E-M12-xxx	<b>6AJ101</b> -xxx
2-wire(PLC module PNP)	FIS-6J-BO-S-E-M12-xxx	<b>6AJ103</b> -xxx
2-wire(PLC module NPN)	FIS-6J-DO-S-E-M12-xxx	<b>6AJ105</b> -xxx



Connection: Cable with M12 plug (4pin)



	Part number-xxx	Order code
PNP(Normally open)	FIS-6J-PO-D-E-M12Y-xxx	<b>6AJ121</b> -xxx
NPN(Normally open)	FIS-6J-NO-D-E-M12Y-xxx	<b>6AJ141</b> -xxx
2-wire(PLC module PNP)	FIS-6J-BO-D-E-M12Y-xxx	<b>6AJ143</b> -xxx
2-wire(PLC module NPN)	FIS-6J-DO-D-E-M12Y-xxx	<b>6AJ145</b> -xxx

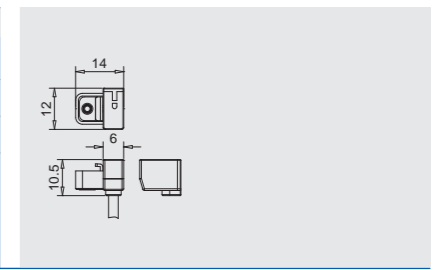


Can be fixed in Festo C-slot, with free end cable

Connection: Cable with free end



	Part number-xxx	Order code
PNP(Normally open)	FIS-6J-PO-S-E-OE-xxx	<b>6AJ161</b> -xxx
NPN(Normally open)	FIS-6J-NO-S-E-OE-xxx	<b>6AJ181</b> -xxx
2-wire	FIS-6J-BO-S-E-OE-xxx	<b>6AJ183</b> -xxx



Remarks: xxx= cable length, can be customized according to needs when ordering, the cable length is increased by 0.5m, for example: 005=0.5m, 010=1m, 015=1.5m



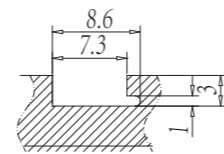
## Technical parameter

Supply voltage $U_b$	10...30 V DC
Voltage drop $U_d$	$\leq 2.5$ V
Rated insulation voltage $U_i$	75 V DC
Rated working current $I_e$	100 mA
No-load supply current $I_o \max$	$\leq 8$ mA
Reverse polarity protection/power-signal short-circuit protection	Yes/Yes
Rated switching magnetic field strength $I_{Hn} I$	1.2 kA/m
Safely flip the magnetic field strength $I_{Ha} I$	$\geq 2$ kA/m
$I_{Hn} I$ Temperature drift of connecting point	$\leq 0.3\%/^{\circ}C$
On/Off delay	$\leq 0.07$ ms/ $\leq 0.07$ ms
Ambient temperature $T_a$	-25...+85° C
Degree of protection as per IEC 60529	IP 67
Certification	CE
Shell material	PA 12
Installation method	Can be installed from above
Slot	J-slot

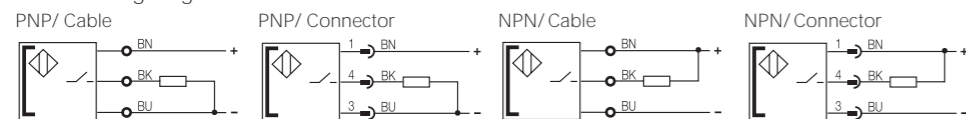
Slot size

J-slot

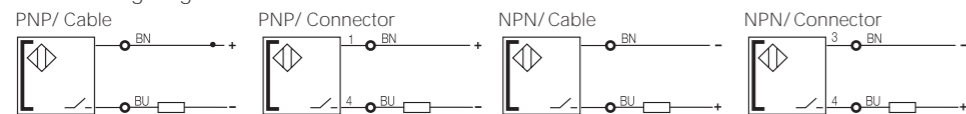
For example: TAC J type



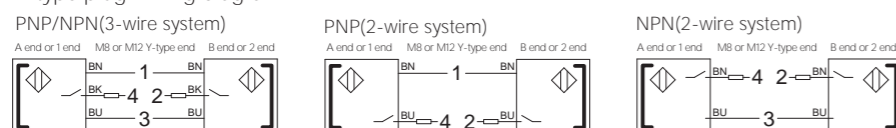
## 3-wire Wiring diagram



## 2-wire Wiring diagram



## Y-type plug Wiring diagram



04

Magnetic cylinder sensor

Recommended accessories (See 4.3.03)  
(Please order separately)

# Magnetic cylinder sensor

## Compact design

Can be directly used for SMC cylinder series

Series	Bore	FAS sensor model	Installation accessories	Accessories model
CD55	All series	FIS-9M/FIS-9Q	×	-
CP96[ ]D	All series	FIS-9M/FIS-9Q	×	-
CDO2	All series	FIS-9M/FIS-9Q	×	-
CDU	All series	FIS-9M/FIS-9Q	×	-
CDUJ	All series	FIS-9G	×	-
CHDQ	All series	FIS-9M/FIS-9Q	×	-
CXSJ	All series	FIS-9M/FIS-9Q	×	-
CDOM	All series	FIS-9M/FIS-9Q	×	-
CDQS	All series	FIS-9M/FIS-9Q	×	-
COU	All series	FIS-9M/FIS-9Q	×	-
CRJ	All series	FIS-9M/FIS-9Q	×	-
CVQ	All series	FIS-9M/FIS-9Q	×	-
CXT	All series	FIS-9M/FIS-9Q	×	-
JCDQ	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
JMGP	All series	FIS-9M/FIS-9Q	×	-
MGF	All series	FIS-9M/FIS-9Q	×	-
MGJ	All series	FIS-9Q/FIS-9G	×	-
MGP/MGPW	All series	FIS-9M/FIS-9Q	×	-
MGQ	All series	FIS-9M/FIS-9Q	×	-
MHF2	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MHK2	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MHL2	All series	FIS-9M/FIS-9Q	×	-
MHQG2	All series	FIS-9M/FIS-9Q	×	-
MDHR2	All series	FIS-9M/FIS-9Q	×	-
MDHR3	All series	FIS-9M/FIS-9Q	×	-
MHT2	All series	FIS-9M/FIS-9Q	×	-
MHW2	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MHZ2	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MIW/MIS	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MK/MK2T	All series	FIS-9M	×	-
MOQ	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MOP	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MSQ	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MHC2	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MHY2	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MXH	All series	FIS-9M/FIS-9Q	×	-
MXY	All series	FIS-9M/FIS-9Q	×	-
MY1	All series	FIS-9M/FIS-9Q	×	-
MRHQ	All series	FIS-9M/FIS-9Q	×	-
MSZ	All series	FIS-9M/FIS-9Q	×	-
MTS	All series	FIS-9M/FIS-9Q/FIS-9G	×	-
MVGQ	All series	FIS-9M/FIS-9Q	×	-
MXP	All series	FIS-9M/FIS-9Q	×	-
MXQ	All series	FIS-9M/FIS-9Q	×	-
MXS	All series	FIS-9M/FIS-9Q	×	-
MXW	All series	FIS-9M/FIS-9Q	×	-
MXZ	All series	FIS-9M/FIS-9Q	×	-
NCO8	All series	FIS-9M/FIS-9Q	×	-
RLQ	All series	FIS-9M/FIS-9Q	×	-
RQ	All series	FIS-9M/FIS-9Q	×	-
RS2H	All series	FIS-9M/FIS-9Q	×	-
RSH	All series	FIS-9M/FIS-9Q	×	-
RSQ	All series	FIS-9M/FIS-9Q	×	-
RZQ	All series	FIS-9M/FIS-9Q	×	-
C96[ ]D	φ32, φ40	FIS-9M/FIS-9Q	✓	Please consult our company
C96[ ]D	φ50, φ63	FIS-9M/FIS-9Q	✓	Please consult our company
C96[ ]D	φ80, φ100	FIS-9M/FIS-9Q	✓	Please consult our company
CDA2	φ40, φ50	FIS-9M/FIS-9Q	✓	Please consult our company
CDA2	φ63	FIS-9M/FIS-9Q	✓	Please consult our company
CDA2	φ80, φ100	FIS-9M/FIS-9Q	✓	Please consult our company
CD85	φ8 to φ16	FIS-9M/FIS-9Q	✓	Please consult our company
CD85	φ20 to φ40	FIS-9M/FIS-9Q	✓	Please consult our company
CD75	φ8 to φ16	FIS-9M/FIS-9Q	✓	Please consult our company
CD75	φ20 to φ40	FIS-9M/FIS-9Q	✓	Please consult our company
CDM2	φ20 to φ40	FIS-9M/FIS-9Q	✓	Please consult our company
CDM3	φ20 to φ40	FIS-9M/FIS-9Q	✓	Please consult our company
CDJ2	φ6, φ10, φ16	FIS-9M/FIS-9Q	✓	Please consult our company
CXS	All series	FIS-9M/FIS-9Q	✓	Please consult our company
CDS1	φ125, φ140	FIS-9M	✓	Please consult our company
CDS1	φ160	FIS-9M	✓	Please consult our company
CDS1	φ180	FIS-9M	✓	Please consult our company
CDS1	φ200	FIS-9M	✓	Please consult our company
CDG1	φ20 to φ63	FIS-9M/FIS-9Q	✓	Please consult our company
CDG3	φ20 to φ63	FIS-9M/FIS-9Q	✓	Please consult our company
CDNA2	φ40, φ50	FIS-9M/FIS-9Q	✓	Please consult our company
CDNA2	φ63	FIS-9M/FIS-9Q	✓	Please consult our company
CDNA2	φ80, φ100	FIS-9M/FIS-9Q	✓	Please consult our company
CDNG	φ20 to φ40	FIS-9M/FIS-9Q	✓	Please consult our company
CDNS	φ125, φ140	FIS-9M/FIS-9Q	✓	Please consult our company
CDNS	φ160	FIS-9M/FIS-9Q	✓	Please consult our company
CRA1	All series	FIS-9M/FIS-9Q	✓	Please consult our company
CRB1	All series	FIS-9M/FIS-9Q	✓	Please consult our company

# Magnetic cylinder sensor

## Compact design

Can be directly used for SMC cylinder series

Series	Bore	FAS sensor model	Installation accessories	Accessories model
CDS2	φ125, φ140	FIS-9M	✓	Please consult our company
CDS2	φ160	FIS-9M	✓	Please consult our company
JCDM	φ20 to φ40	FIS-9M	✓	Please consult our company
JMDB	φ32, φ40, φ45	FIS-9M/FIS-9Q	✓	Please consult our company
JMDB	φ50, φ56, φ63	FIS-9M/FIS-9Q	✓	Please consult our company
JMDB	φ67, φ80	FIS-9M/FIS-9Q	✓	Please consult our company
JMDB	φ85, φ100	FIS-9M/FIS-9Q	✓	Please consult our company
MDB	φ32, φ40	FIS-9M/FIS-9Q	✓	Please consult our company
MDB	φ50, φ63	FIS-9M/FIS-9Q	✓	Please consult our company
MDB	φ80, φ100	FIS-9M/FIS-9Q	✓	Please consult our company
MDB	φ125	FIS-9M/FIS-9Q	✓	Please consult our company
MDB1	All series	FIS-9M/FIS-9Q	✓	Please consult our company
MGC	φ20 to φ50	FIS-9M/FIS-9Q	×	-
MGG	φ20 to φ63	FIS-9M/FIS-9Q	✓	Please consult our company
MGT	All series	FIS-9M/FIS-9Q	×	-
MGZ/MGZR	All series	FIS-9M/FIS-9Q	✓	Please consult our company

# Magnetic cylinder sensor

## Compact design

Can be directly used for FESTO cylinder series

Series	Bore	FAS sensor model	Installation accessories	Accessories model
AND/AEN	All series	FIS-8M	x	-
ADVC/AEVC	All series	FIS-10M	x	-
ADVC/AEVC	φ32 to φ80	FIS-8M/FIS-10M	x	-
DSBC	All series	FIS-8M	x	-
ADNGF	All series	FIS-8M	x	-
DZF	All series	FIS-8M	x	-
DZH	φ16, φ20, φ25	FIS-8M	x	-
EZH-10	φ40	FIS-8M	x	-
DMM/EMM-10	All series	FIS-8M	x	-
EMMZ	All series	FIS-8M	x	-
DNCKE	All series	FIS-8M	x	-
DNC	φ8, φ12	FIS-10M	x	-
DNC	φ18 to φ50	FIS-8M	x	-
DFP	All series	FIS-8M	x	-
DFM	All series	FIS-8M	x	-
DPZ	All series	FIS-8M	x	-
DGSL	All series	FIS-10M	x	-
SLF/SLT	All series	FIS-10M	x	-
DHPS	All series	FIS-8G	x	-
HGPD/HGPT	φ16 to φ35	FIS-10G	x	-
HGPD/HGPT	φ40 to φ80	FIS-8G	x	-
HGPL	All series	FIS-8M	x	-
HGPC	All series	FIS-10M/FIS-10G	x	-
HGP	All series	FIS-8M	x	-
DHDS	All series	FIS-8G	x	-
HGDD	All series	FIS-8G	x	-
HGDT	All series	FIS-10M/FIS-10G	x	-
DHWS/DHRS	All series	FIS-8M/FIS-8G	x	-
HGRT	φ16...φ32	FIS-10G	x	-
HGRT	φ40, φ50	FIS-8G	x	-
HGRC	All series	FIS-10M/FIS-10G	x	-




  

Series	Bore	FAS sensor model	Installation accessories	Accessories model
DZH	φ32...φ63	FIS-8M	✓	Please consult our company
DSBF-C	All series	FIS-8M	✓	Please consult our company
DSBG	φ32...φ100	FIS-8M	✓	Please consult our company
DSBG	φ125	FIS-8M	✓	Please consult our company
DSBG	φ160, φ200	FIS-8M	✓	Please consult our company
SNU/ESNU	All series	FIS-8M	✓	Please consult our company
CRDSNU	All series	FIS-8M	✓	Please consult our company
CRDNG	All series	FIS-8M	✓	Please consult our company
CRHD	All series	FIS-8M	✓	Please consult our company

# Magnetic cylinder sensor

## install accessories

Suitable for FIS-9M magnetic switch

Suitable for round cylinders	Adaptor cylinder series	Description	PU1)	Order NO
	Suitable for stainless steel cylinder: PB, PBR, MI, MF, MG, MA, MAC	For piston @ 6 mm	2	F-MQS06
		For piston @ 8 mm	2	F-MQS08
		For piston @ 10 mm	2	F-MQS10
		For piston @ 12 mm	2	F-MQS12
		For piston @ 16 mm	2	F-MQS16
		For piston @ 20 mm	2	F-MQS20
		For piston @ 25 mm	2	F-MQS25
		For piston @ 32 mm	2	F-MQS32
		For piston @ 40 mm	2	F-MQS40
		For piston @ 50 mm	2	F-MQS50
	Suitable for aluminum cylinder: MCK, MBL, MAL	For piston @ 20 mm	2	F-MQA20
		For piston @ 25 mm	2	F-MQA25
		For piston @ 32 mm	2	F-MQA32
		For piston @ 40 mm	2	F-MQA40
	TWG	For piston @ 50 mm	2	F-MQA50
		For piston @ 32 mm	2	F-MQT32
		For piston @ 40 mm	2	F-MQT40
	SC, SGC	For piston @ 125 mm	2	F-MQT50
		For piston @ 32 mm	2	4SC000-ASS-02
		For piston @ 40 /50 mm	2	4SC000-ASS-03
		For piston @ 63 mm	2	4SC000-ASS-03
		For piston @ 80 mm	2	4SC000-ASS-04
		Suitable for FIS-9M magnetic switch, T-slot installation	2	4SC000-ASS-05

04

Magnetic cylinder sensor