
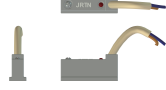




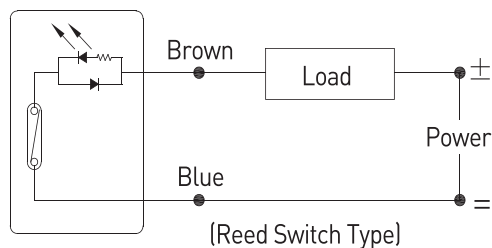
# 마그네틱 센서 MAGNETIC SENSOR

Model Specification	J02	JRTN (J01)	JRTS	J13	J34
제품형상 Shape					
주요특징 Character	원형타입 Cylindrical Shape	L-형 Cable L-Type Cable	I-형 Cable I-Type Cable	원형실린더용 for Round Cylinder	로드레스실린더용 for Rodless Cylinder
사용전압 Loading Voltage	DC 24V (10~28V)				
사용전류(부하전류) Loading Current	5 ~50mA Max				
내부전압강하 Int'l Voltage Drop	5V 이하 Below 5V				
누설전류 Leakage Current	1mA 이하 Below 1mA				
응답속도 Response Time	1mSEC 이하 Less than 1msec				
밀폐등급 Enclosure Rating	IP67				
사용온도범위 Temperature Range	-15 ~ 60℃				
내충격 Shock / Vibration	30G				
내전압 Endurance Voltage	AC1,500V에서 1분간 ( 리드선과 케이스간 ) For 1 Min under Ac1,500V Between Case & cable				
케이블 Cable	내유비닐 캡 타이머 코드 ( VW-1 규격, 난연성 ) Oil resistant vinyl jacket ( VW-1, Fire Retardant )				
신호표시램프 Signal Lamp	ON시 적색 LED 발광 Red LED Emitting When S/W on				

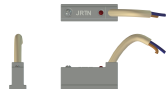
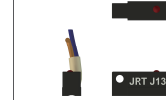
※ 리드선 길이는 1m이고 1m 이상은 주문 사양.  
Standard Lead wire is 1 meter long, Longer size is available by order

## 유점점 센서(Reed Switch) 회로도

Reed switch 2 wire type - circuit diagram



# 마그네틱 센서 MAGNETIC SENSOR

Model Specification	J02S	JRTNS	JRTSS	J13S	J34S
제품형상 Shape					
주요특징 Character	원형타입 Cylindrical Shape	L-형 Cable L-Type Cable	I-형 Cable I-Type Cable	원형실린더용 for Round Cylinder	로드레스실린더용 for Rodless Cylinder
사용전압 Loading Voltage	DC 24V (10~28V)				
사용전류 Loading Current	5 ~ 50mA Max				
내부전압강하 Int'l Voltage Drop	5V 이하 Below 5V				
누설전류 Leakage Current	1mA 이하 Below 1mA				
응답속도 Response Time	1mSEC 이하 Less than 1msec				
밀폐등급 Enclosure Rating	IP67				
사용온도범위 Temperature Range	-15 ~ 60℃				
내충격 Shock/Vibration	30G				
내전압 Endurance Voltage	AC1,500V에서 1분간 (리드선과 케이스간) For 1 Min under Ac1,500V Between Case & cable				
케이블 Cable	내유비닐 캡 타이어 코드 ( VW-1 규격, 난연성 ) Oil resistant vinyl jacket ( VW-1, Fire Retardant )				
신호표시램프 Signal Lamp	ON시 적색 LED 발광 Red LED Emitting When S/W on				

SENSOR

SHOCK  
ABSORBER

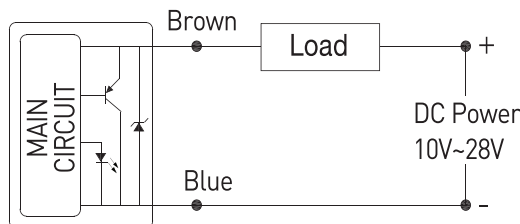
MOTOR

LINEAR  
GUIDE


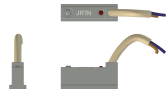
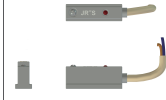
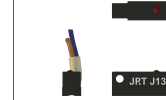
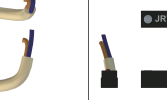
※ 리드선 길이는 1m이고 1m 이상은 주문 사양.  
Standard Lead wire is 1 meter long, Longer size is available by order

## 2선식 무접점 센서 회로도

Solid state 2 wire type - circuit diagram



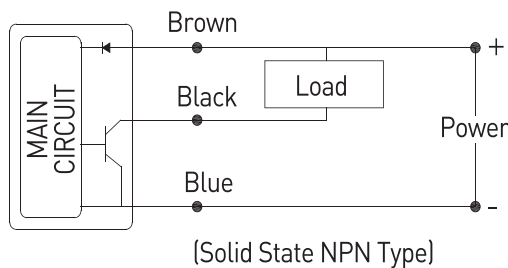
# 마그네틱 센서 MAGNETIC SENSOR

Model Specification	J02N	JRTNN	JRTSN	J13N	J34N
제품형상 Shape					
주요특징 Character	원형타입 Cylindrical Shape	L-형 Cable L-Type Cable	I-형 Cable I-Type Cable	원형실린더용 for Round Cylinder	로드레스실린더용 for Rodless Cylinder
사용전압 Loading Voltage	DC 24V (10~28V)				
사용전류 Loading Current	5 ~50mA Max				
내부전압강하 Int'l Voltage Drop	5V 이하 Below 5V				
누설전류 Leakage Current	1mA 이하 Below 1mA				
응답속도 Response Time	1mSEC 이하 Less than 1msec				
밀폐등급 Enclosure Rating	IP67				
사용온도범위 Temperature Range	-15 ~ 60℃				
내충격 Shock/Vibration	30G				
내전압 Endurance Voltage	AC1,500V에서 1분간 (리드선과 케이스간) For 1 Min under AC1,500V Between Case & cable				
케이블 Cable	내유비닐 캡 타이어 코드 (VW-1 규격, 난연성) Oil resistant vinyl jacket (VW-1, Fire Retardant)				
신호표시램프 Signal Lamp	ON시 적색 LED 발광 Red LED Emitting When S/W on				

※ 리드선 길이는 1m이고 1m 이상은 주문 사양.  
Standard Lead wire is 1 meter long, Longer size is available by order

## 3선식 무접점 NPN 회로도

Solid state type, current sinking - circuit diagram



# 마그네틱 센서 MAGNETIC SENSOR

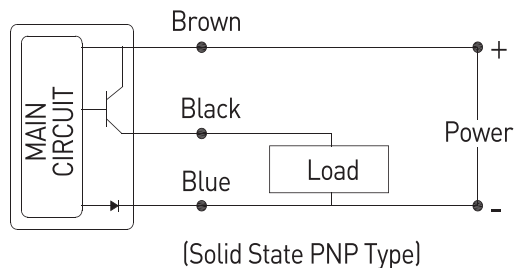
Model Specification	J02P	JRTNP	JRTSP	J13P	J34P
제품형상 Shape					
주요특징 Character	원형타입 Cylindrical Shape	L-형 Cable L-Type Cable	I-형 Cable I-Type Cable	원형실린더용 for Round Cylinder	로드레스실린더용 for Rodless Cylinder
사용전압 Loading Voltage	DC 24V (10~28V)				
사용전류 Loading Current	5 ~ 50mA Max				
내부전압강하 Int'l Voltage Drop	5V 이하 Below 5V				
누설전류 Leakage Current	1mA 이하 Below 1mA				
응답속도 Response Time	1mSEC 이하 Less than 1msec				
밀폐등급 Enclosure Rating	IP67				
사용온도범위 Temperature Range	-15 ~ 60℃				
내충격 Shock/Vibration	30G				
내전압 Endurance Voltage	AC1,500V에서 1분간 (리드선과 케이스간) For 1 Min under AC1,500V Between Case & cable				
케이블 Cable	내유비닐 캡 타이어 코드 ( VW-1 규격, 난연성 ) Oil resistant vinyl jacket ( VW-1, Fire Retardant )				
신호표시램프 Signal Lamp	ON시 적색 LED 발광 Red LED Emitting When S/W on				

SENSOR  
SHOCK ABSORBER  
MOTOR  
LINEAR GUIDE

※ 리드선 길이는 1m이고 1m 이상은 주문 사양.  
Standard Lead wire is 1 meter long, Longer size is available by order

### 3선식 무접점 PNP 회로도

Solid state type, current sourcing - circuit diagram

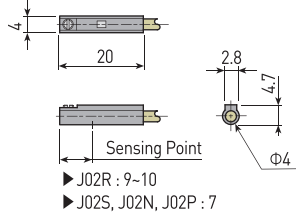
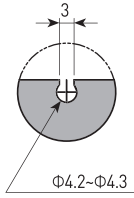




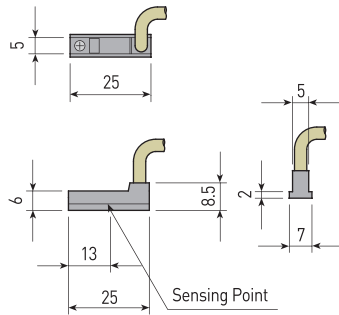
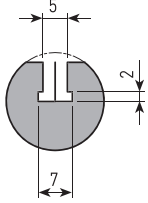
# 마그네틱센서 치수도

## MAGNETIC SENSOR DIMENSION

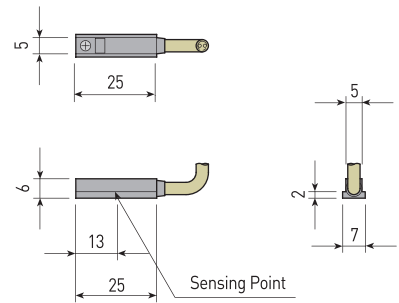
### J02 □



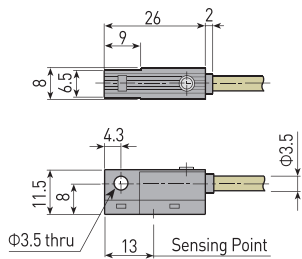
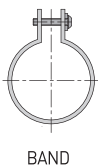
### JRTN □ (J01 호환가능)



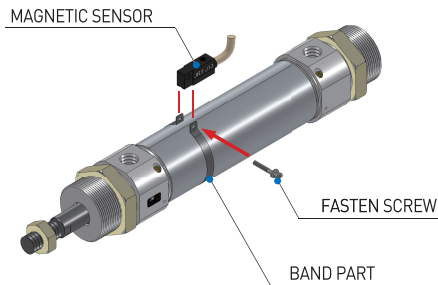
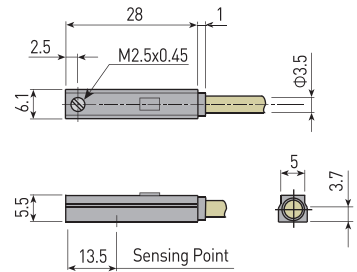
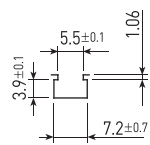
### JRTS □



### J13 □

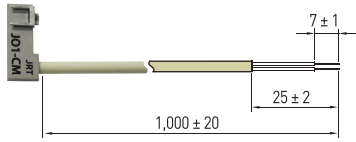


### J34 □

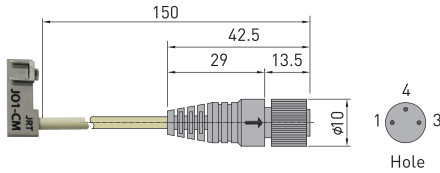


CONNECTOR & PROXIMITY SENSOR (MAGNETIC SENSOR)

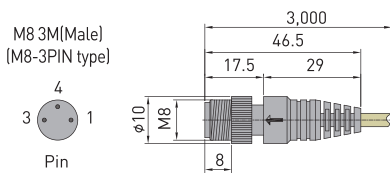
Standard Cable



Connector-Sensor Dimension



Connector Dimension



제품사양 (Specification)

커넥터 타입 Connector Type	M8-3 Pin 일자형 암나사 Female [Straight]
케이블 색상 Lead Wire Color	1-갈색, 3-청색, 4-흑색 1-Brown, 3-Blue, 4-Black
최대 사용전압 Max. Operating Voltage	DC12~24
최대 부하전류 Max. Rating Current	3A
접촉저항 Insulation Between Contacts	1.0 KV
하우징 접촉저항 Insulation Between Contacts & Metal Housing	0.85 KV
핀 코팅 Pin Coating	5 $\mu$ m 금도금 5 $\mu$ m Gold Coating
탈착 내구성 Numbers Of Mechanical Operations	100회 이상 Over 100 times
사용 온도범위 Temperature Range	-25~70 $^{\circ}$ c
케이블 유지력 Cable Tension Force in Connected	30N
보호구조 IP Degree Protection	IP67

SENSOR

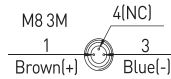
SHOCK  
ABSORBER

MOTOR

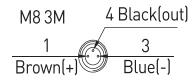
LINEAR  
GUIDE

M8 Connector Wiring

2 wire wiring

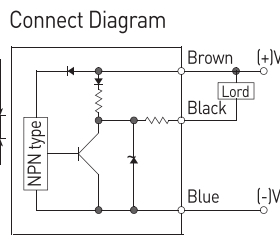
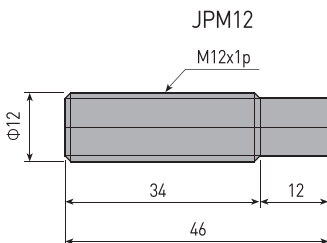
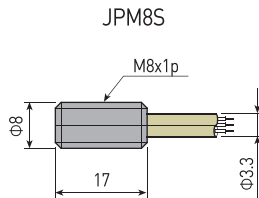
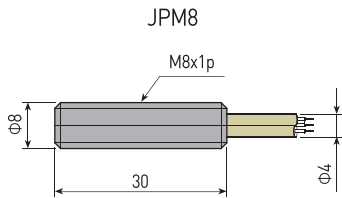


3 wire wiring



■ 근접센서 사양 및 회로도  
Proximity Sensor & Diagram

※ [Connector type] 별도문의  
(Connector type) Please order separately



NPN출력방식, 직류3선식, 매입형,  
리드선길이는 1.5~2m가 기본사양입니다.  
NPN, DC 3 Wire, Wire LENGTH = 1.5 to 2m is  
standard specification

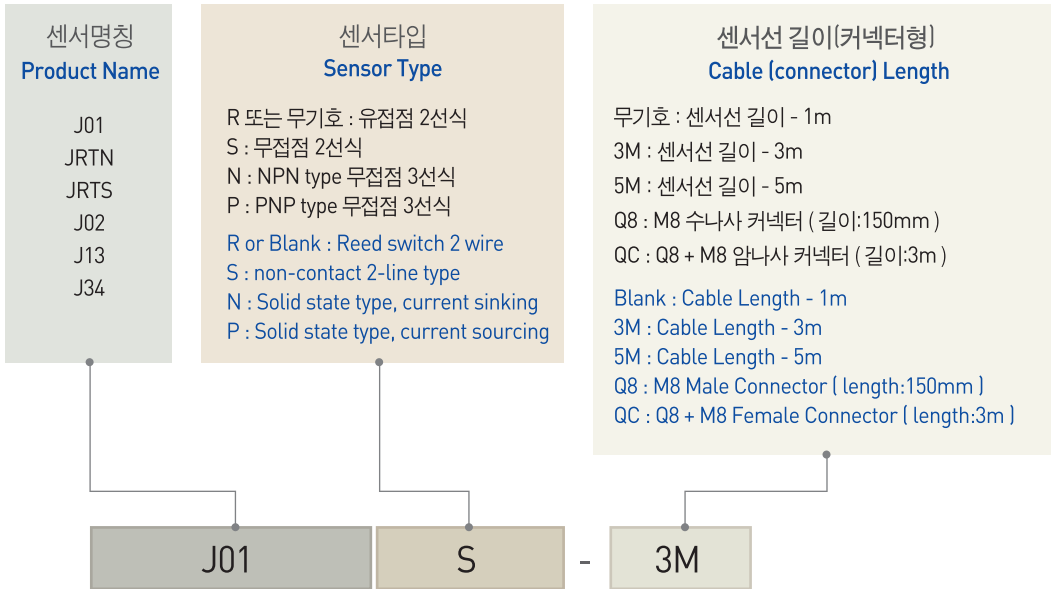
근접센서명칭 TYPE	JPM8 / JPM8S / JPM12
배선방식 CABLE	DC 3 WIRE
사용전압 VOLTAGE	DC 12 to 24V
방식 SENSOR TYPE	NPN (PNP is OPTIONAL)
부하전류 CURRENT	200mA
검출거리 DETECTION DISTANCE	1.5 / 1.5 / 2mm
표시등 INDICATOR	LED

1. 사용온도 : -25 ~ 70 $^{\circ}$ c  
TEMPERATURE RANGE : -25 ~ 70 $^{\circ}$ c
2. 응답주파수 : 800Hz  
SWITCHING FREQUENCY : 800Hz
3. 내전압 : AC1500V / 60Hz / 1분간  
DIELECTRIC STRENGTH : AC1500V / 60Hz / 1minute

# 센서 주문 기호

## SENSOR ORDERING CODE

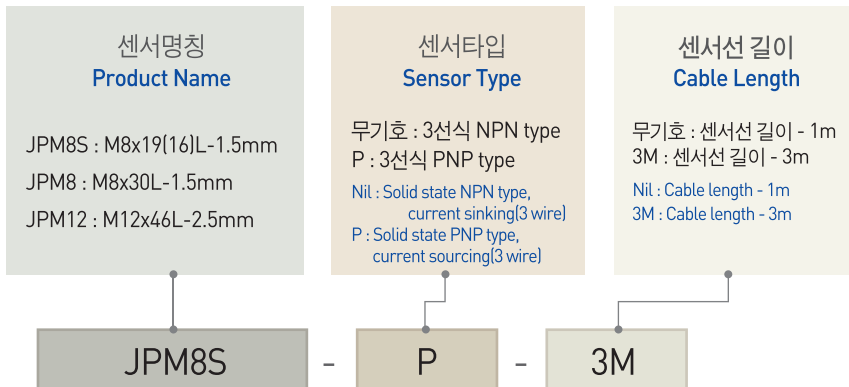
### 마그네틱 센서 주문기호 [Magnetic sensor ordering code]



### 마그네틱 센서 기본사양 [Magnetic sensor standard]

센서명칭 [ Product Name ]	무접점 2선식 [ Solid state type 2 wire ]	유접점 2선식 [ Reed switch 2 wire ]	무접점 3선식 [ Solid state type 3 wire ]	커넥터형 [ Connector type ]	비고 [ Remark ]
J01	공급가능 Available	표준 Standard	공급가능 Available	주문제작 Order made	1) 공급가능 제품은 납기, 가격등에서 표준과 차이가 있습니다. The available products may vary in terms of delivery and price from the standard product. 2) 주문제작 제품은 최저수량 미달시 공급이 불가능할 수도 있습니다. Order-made products may not be delivered when the order quantity is less than the minimum order quantity.
JRTN					
JRTS					
J02					
J13					
J34					

### 근접 센서 주문기호 [Proximity sensor ordering code]



# 센서 주문 기호

## SENSOR ORDERING CODE

### 마그네틱 센서 종류별 주문기호 상세 [ Magnetic sensor ordering code by kinds ]

센서명칭 [ Product Name ]	센서타입 [ Sensor Type ]	센서길이 [ Sensor Cable Length ]
JRTN	R 또는 무기호 : 유접점 2선식 R or Nil Reed switch 2 wire	무기호 : 센서선 길이-1m Nil Cable length - 1m
JRTS	S : 무접점 2선식 Solid state type 2 wire	3M : 센서선 길이-3m Cable length - 3m
J02	N : 무접점 3선식(NPN) Solid state type, current sinking (NPN)	5M : 센서선 길이-5m Cable length - 5m
J13	P : 무접점 3선식(PNP) Solid state type, current sourcing (PNP)	Q8 : M8 수나사 커넥터 (길이:150mm) M8 Male Connector ( length:150mm )
J34		QC : Q8 + M8 암나사 커넥터 (길이:3m) Q8 + M8 Female Connector ( length:3m )

### 센서 종류별 표준 구분 [ Standard of sensor by kinds ]

J01	R	유접점 2선식센서 Reed switch 2 wire	● 표준제품 ● Standard			센서선 길이-1m Cable length - 1m	● 표준 ● Standard
J02	S	무접점 2선식 Solid state type 2 wire	○ 공급가능 ○ Available	3M		센서선 길이-3m Cable length - 3m	○ 가능 ○ Available
J13	N	무접점 3선식(NPN) Solid state type, current sinking (NPN)	○ 공급가능 ○ Available	5M		센서선 길이-5m Cable length - 5m	○ 가능 ○ Available
J34	P	무접점 3선식(PNP) Solid state type, current sourcing (PNP)	○ 공급가능 ○ Available	Q8		수나사 커넥터 M8 Male Connector	△ 옵션 △ Option
JRTN				QC		Q8 + 암나사 커넥터 Q8 + M8 Female Connector	△ 옵션 △ Option
JRTS							

### 주의사항 [ NOTICE ]

- 공급가능(○)으로 분류된 제품은 납기, 가격 등에서 표준제품과 차이가 있을 수 있습니다.  
The available (○) products may vary in terms of delivery and price from the standard product.
- 옵션제품(△)은 별도의 제작과정을 거쳐야 하므로 최저수량 이하 주문시에는 공급이 불가능할 수도 있으며, 납기도 지연될 수 있습니다.  
Option (△) products are required to go through a separate production process. They may not be delivered when the order quantity is less than the minimum order quantity, or the delivery may be delayed.
- 이외에도 고온용, 방수형, 센서길이 및 커넥터 규격 변경등도 주문제작은 가능하나 납기, 가격, 제작 가능여부 등은 사전에 본사와 협의 바랍니다.  
In addition, the product for high temperature, water-proof, or with sensor length and connector specification changed, etc. may include in order-made products, but please consult with our Head Office for delivery, price, availability, etc. in advance.

2013년 6월 30일을 기준으로 제작된 자료이며, 상황에 따라 변동이 있을 수 있습니다.

This data is prepared as of June 30, 2013, which is subject to change depending on the situation.

PRODUCT-ATTACHED SENSOR SPECIFICATION

		마그네틱센서 [ Magnetic Sensor ]		
		J02	JRTN (J01)	JRTS
AF101	10	●		
	12		●	○
AF02	16, 20, 30, 40, 63		●	○
AF03	20, 30, 40		●	○
AF04P	12N	●		
	16, 20		●	○
AF105P	08, 10, 16			
AF06	30, 40		●	○
AF10	20, 30, 40, 50		●	○
AF13	20, 30, 40, 50		●	○
	63, 80, 100		●	○
AF13C	20, 30, 40, 50		●	○
AF14	20, 30		●	○
AF15	12, 16, 20		●	○
AF316	16, 20, 25		●	○
AF17	25, 40		●	○
AF117	16	●		
	20, 25, 30, 40		●	○
	50, 63, 80		●	○

		마그네틱센서 [ Magnetic Sensor ]			근접센서 [ Proximity sensor ]		
		J02	JRTN (J01)	JRTS	JPM8S	JPM8	JPM12
AF19	10						
AF24	12N, 16N	●					
	20, 30, 40		●	○			
AF26	16, 20, 25, 30, 40		●	○			
	50, 63, 80, 100		●	○			
AF28D	10, 14, 16, 20, 30		●	○			
AF30	20, 25, 30, 40, 50				●	◆	
	63, 90					●	
	125						●
AF40	40		●	○			
AF46	30, 40, 55				●	◆	
	75, 95, 125, 160N					●	
AF56N	20, 25, 32	●					
	40, 50, 63, 80, 100		●	○			
AF56L	40, 50, 63		●	○			
RAF56N	32, 40, 50, 63		●	○			
AF30SP	30, 40, 50	●			●	◆	
MF16	S, M, L						

▣ 범례 [ Legend ]

- 별도의 지정사항이 없을때, 본사가 권장하는 기본 센서입니다.  
● Unless otherwise specified, the product is supplied with the basic specification recommended by our Head Office.
- 기본센서와 호환이 가능하며, 고객이 선택할 수 있는 센서입니다.  
○ Interfaced with the basic sensor ; Sensor is available upon customer`s request.
- ◆ 사용은 가능하나, 센서선의 돌출문제 등을 고려해야 하는 센서입니다.  
◆ It can be used, but sensor should be considered protrusion problem of its line, etc.

기존 주문기호(RS, PS)만 기입시에는 본사에서 임의의 센서(●, ○)를 부착하여 드립니다.  
When entering the existing order code ( RS, PS ) only, our Head Office will attach a suitable sensor ( ●, ○ ) at its option.

PRODUCT-ATTACHED SENSOR SPECIFICATION

		마그네틱센서 [ Magnetic Sensor ]			
		J02	J13	JRTN (J01)	JRTS
RH	20, 30, 40, 50, 63, 80			●	○
RHC	30, 40, 50, 63, 80			●	○
RHW	20, 30, 40, 50, 63, 80			●	○
RHS	30, 40, 50, 63, 80			●	○
TL	20			●	○
	30, 40, 50		●		
GC	20, 30		●		
	40, 50			●	
SC	20, 30, 40		●		
JC	12, 16, 20, 25, 30			●	○
NE	16, 20, 25, 30			●	○
NT	12, 16, 20, 25, 30			●	○
DG	16, 20, 25, 30			●	○
NO	12, 16, 20, 25, 30			●	○
	40		●		
NF	16, 20, 25, 30			●	○
JO	12, 16, 20, 25, 30			●	○

		마그네틱센서 [ Magnetic Sensor ]					근접센서 [ Proximity sensor ]	
		J02	J13	J34	JRTN (J01)	JRTS	JPM8	JPM12
JSR9□	18, 50	●						
	25, 40, 63			●				
	32	○		●				
JCR9□	18, 50	●						
	25, 40, 63			●				
	32	○		●				
SRJ	16, 20, 25, 30, 40				●	○		
SDRJ	16				●	○		
	20, 25, 30, 40				◆	◆	●	
	50, 63						●	
RJC	40, 63, 80					●		
RTU	25	●						
	40, 50				●	○		
SSU	20, 30, 40, 50						●	
MSRJ	20, 25, 30, 40						●	
	50							●
RSD	12	●						
RSS, RSD	20				●	○		
RK	10, 16							
RTJ	50, 70S							

SENSOR
SHOCK ABSORBER
MOTOR
LINEAR GUIDE

☒ 범례 [ Legend ]

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