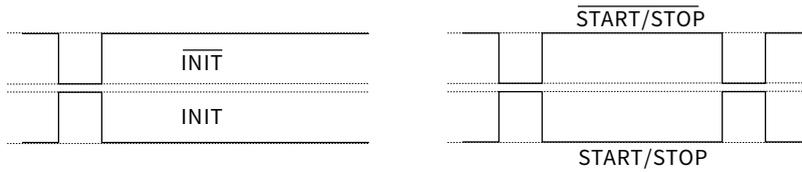


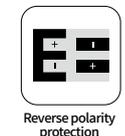
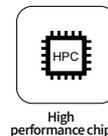
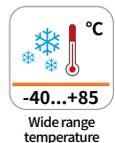
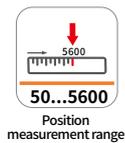


EP2-Start/Stop

EP2-Series Data Sheet



- + Updated new generation: stronger performance
- + Easily installed: integrated design, no protruding electronics housing
- + Start/Stop Digital pulse output
- + Widely applicated in forging, building materials, rubber and plastic machinery and other fields



| | | |
|------------------------------|-------------------------|--|
| Input | Measured data | Position |
| | Measurement range | 50mm...5600mm |
| Output | Digital | Start/Stop pulse, DPI/IP mode supportive |
| Resolution | Resolution | Depends on controller |
| | None-Linearity | < $\pm 0.02\%$ F.S. (min. $\pm 50\mu\text{m}$) |
| | Repeatability | < $\pm 0.005\%$ F.S. (min. $\pm 20\mu\text{m}$) |
| | Update time | Depends on controller |
| | Temperature coefficient | < 30ppm/°C |
| Mounting | Mounting position | Any |
| | Fixation | Removable fixing card |
| Design/ Material | Sensor cap | Aluminum alloy/Zinc alloy |
| | Sensor profile | Aluminum alloy |
| Electrical connection | Wiring connection | Straight out cable or aviation plug |
| | Operating voltage | +24VDC(-15/+20%) |
| | Polarity protection | Up to -36VDC |
| | Overvoltage protection | Up to +36VDC |
| | Power consumption | < 80mA (varies with range size) |
| | Dielectric strength | 500 VDC (DC ground to machine ground) |
| Operating conditions | Magnet velocity | Any. |
| | Operating temperature | -40...85°C |
| | Humidity | 90 % relative humidity, no condensation |
| | Ingress protection | IP67 (when connector is fitted)/IP68 (straight out cable) |
| | Shock | 100 g (single shock) IEC standard 60068-2-27 |
| | Vibration | 15g/10...2000 Hz, IEC standard 60068-2-6 (resonant frequencies excluded) |
| | EMC | Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2 |

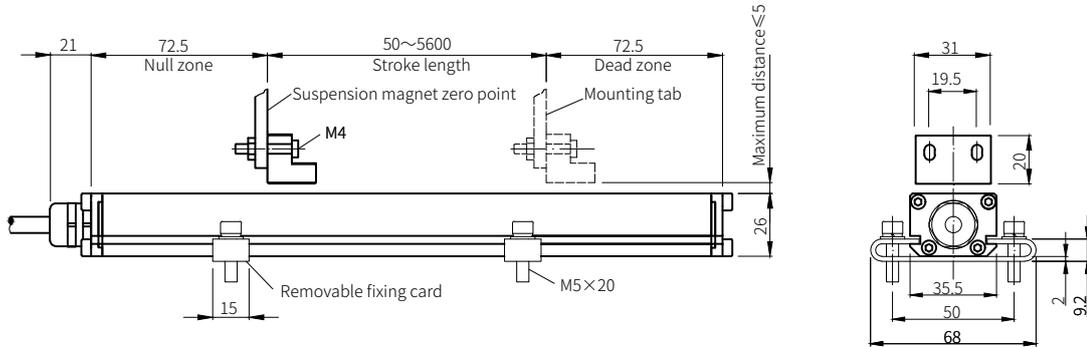
ITEM

CATEGORY

PARAMETER

Straight out cable

EP2- ____ - **RP** - ____
 EP2- ____ - **RT** - ____

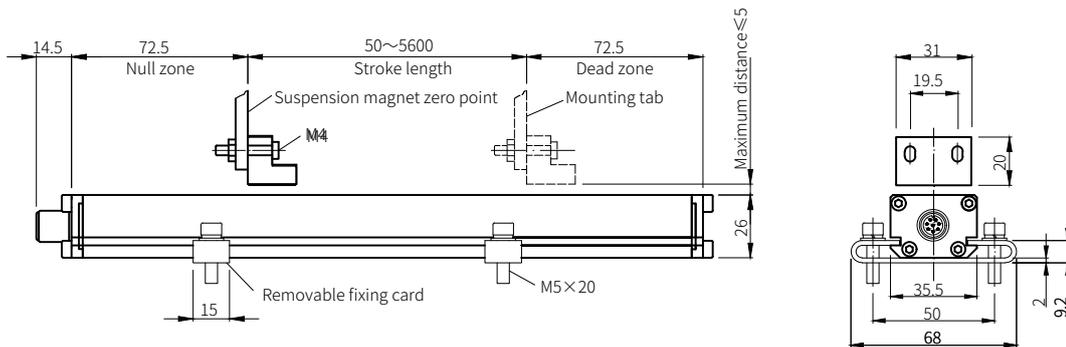


FUNCTION

| | | | | | | |
|----------|-------------------|-----------|----------|---------|-------------|-------------|
| Color | ● Brown | ○ White | ● Yellow | ● Green | ● Gray* | ● Pink* |
| Function | 24VDC -15/+20% | 0VDC(GND) | Init+ | Init- | Start/Stop- | Start/Stop+ |

8 pin M12 connector

EP2- ____ - **D812** - ____
 EP2- ____ - **D812M** - ____



D812M Function (1-2-3-4-7-8)

| | | | | | | | | |
|----------|-------|-------|-------------|-------------|----|----|-------------------|---------------|
| PIN-Male | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Function | Init+ | Init- | Start/Stop+ | Start/Stop- | NC | NC | 24VDC -15/+20% | 0VDC (GND) |

D812 Function (1-2-3-5-6-7)

| | | | | | | | | |
|----------|-------|-------------|-------|----|-------------|---------------|-------------------|----|
| PIN-Male | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Function | Init+ | Start/Stop+ | Init- | NC | Start/Stop- | 0VDC (GND) | 24VDC -15/+20% | NC |



View on sensor

ORDER CODE

TECHNOLOGY PERCEIVES THE FUTURE

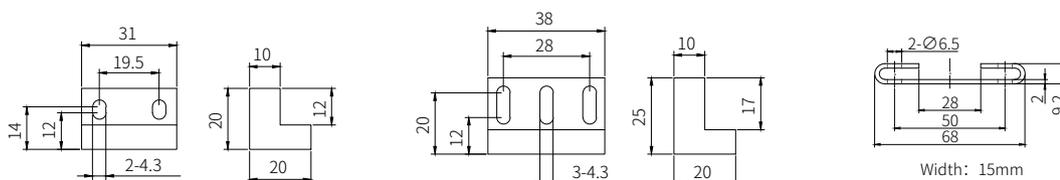
| EP2 - | M- | | |
|-----------------------------------|---|--|---------------|
| Stroke length | 连接形式 | | Output |
| 0050...5600mm (5mm increments) | RP__ Straight out __m high performance cable | | (Output Code) |
| | RT__ Straight out __m high temperature cable (Fill in zero if less than 2 places) | | |
| | D812M 8 pin M12 connector, Function1、 2、 3、 4、 7、 8 | | |
| | D812 8 pin M12 connector, Function1、 2、 3、 5、 6、 7 | | |

| Start/Stop Output Code | [1][2]-[3][4] | | | | | | |
|------------------------|---|---------------|---------------|------------------|---------------|----------------|----------------|
| | <table border="1"> <thead> <tr> <th>[1][2] Output</th> <th>[3][4] Magnet</th> </tr> </thead> <tbody> <tr> <td>SS DPI mode only</td> <td>01 one magnet</td> </tr> <tr> <td>SD DPI/IP mode</td> <td>02 two magnets</td> </tr> </tbody> </table> | [1][2] Output | [3][4] Magnet | SS DPI mode only | 01 one magnet | SD DPI/IP mode | 02 two magnets |
| [1][2] Output | [3][4] Magnet | | | | | | |
| SS DPI mode only | 01 one magnet | | | | | | |
| SD DPI/IP mode | 02 two magnets | | | | | | |

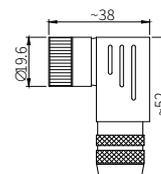
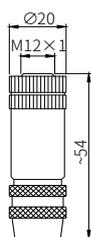
| Model selection | Model: EP2-0600M-D812M-SS-01 |
|-----------------|---|
| | Explanation: EP2 type II generation, stroke length 600mm, 8pin M12 aviation plug(Function1、 2、 3、 4、 7、 8), Start/Stop output, DPI mode only, single magnet. |

PARTS SELECTION

TECHNOLOGY PERCEIVES THE FUTURE



| | | | |
|-------------------|-------------------------|-------------------------|-----------------------|
| Name | Suspension magnet 31x20 | Suspension magnet 38x25 | Removable fixing card |
| Order code | 12-1010 | 12-1009 | 11-1009 |



| | | |
|-------------------|----------------------------|--|
| Name | 8 pin M12 female connector | 8 pin M12 female connector (90 degree angle) |
| End view drawing | | |
| Material | Galvanized nickel | |
| Fitting diameter | 8...10mm | 6...8mm |
| Connection | Threaded | |
| Order code | 18-5004 | 18-5005 |

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