

- Features

 Mamm diameter

 10-60VDC operating voltage

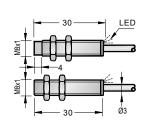
 Sn=1mm, shielded

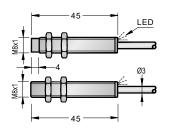
 Zmm,non-shielded

 Stainless steel housing case

 Stainless steel active sensing face

- Short-circuit protection Snort-circuit protection
 Overload protection
 Reverse polarity protection
 Wire Output
 NO,NC Function
 Cable version
 IP67 Protection





(Unit: mm)





(€

| Connection | 2m Cable | | 2m (| Cable |
|------------|------------|--------------|------------|--------------|
| Mounting | Shielded | Non-shielded | Shielded | Non-shielded |
| 2 Wire-NO | M6CC08X01A | M6CD08X02A | M6CE08X01A | M6CF08X02A |
| 2 Wire-NC | M6CC08Y01A | M6CD08Y02A | M6CE08Y01A | M6CF08Y02A |
| | | | | |

| General Data | | | | |
|-------------------------------------|-----------------|---------------|---------------|---------------|
| Housing size | M8mm | | m M8mm | |
| Installation type | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance(Sn: mm) | 1mm | 2mm | 1mm | 2mm |
| Standard sensing object | Steel 8x8x1mm | Steel 8x8x1mm | Steel 8x8x1mm | Steel 8x8x1mm |
| Effective sensing distance (Sr: mm) | 90 110% of Sn | | 90 110% of Sn | |
| Assured operating distance(Sa: mm) | 0 80% of Sn | | 0 80% of Sn | |
| Hysteresis | <15 | 5% | <15% | |
| Housing material | Stainless steel | | Stainle | ss steel |
| Operating voltage | 10 60VDC | | 10 0 | 60VDC |
| Electrical Data | | | | |

| Electrical Data | | | | |
|-----------------------------|---|---|---|-------------|
| Rated operating voltage | 24VDC | | 24VDC | |
| Repeated accuracy | ±10 | 0% | ±1 | 0% |
| Ripple | <10 | 0% | <1 | 0% |
| No load current | <10 | mA | <10 | mA |
| Max. Load current | 200 | mA | 200 | lmA |
| Leakage current | <0.0 |)1mA | <0.0 |)1mA |
| Voltage drop | <4.5V | <4.5V | <4.5V | <4.5V |
| Switching frequency | 2000Hz | 2000Hz | 2000Hz | 2000Hz |
| Response time | 0.1ms/0.1ms | 0.1ms/0.1ms | 0.1ms/0.1ms | 0.1ms/0.1ms |
| Rated insulation voltage | 75VI | DC | 75VDC | |
| Operating temperature | -25°C | . +70°C | -25°C +70°C | |
| Storage temperature | -40°C | . +80°C | -40°C +80°C | |
| Temperature drift | <10 | 0% | <10% | |
| Power indicator | N | 0 | No | |
| Function indicator | Yellow | v LED | Yellow LED | |
| Reverse polarity protection | Ye | es | Yes | |
| Short-circuit protection | Yes | | Yes | |
| Overload trip point | 220 | mA | 220 | lmA |
| Correction factors | Fe37 steel=1/stainless steel ap Al. Approx. 0.45/ copper appro | oprox. 0.85/brass approx. 0.5/ vx. 0.4 | Fe37 steel=1/stainless steel a Al. Approx. 0.45/ copper approx | |

| Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | | |
|--|---|--|
| | | |
| Stainless steel | Stainless steel | |
| IP67 | IP67 | |
| Shock, half-sinus, 30gn, 11ms | Shock, half-sinus, 30gn, 11ms | |
| 55Hz, 1mm ampl., 3x30min. | 55Hz, 1mm ampl., 3x30min. | |
| IEC 60947-5-2 | IEC 60947-5-2 | |
| 2 nuts | 2 nuts | |
| 2m PVC cable (Ø3 2x0.15mm²) | 2m PVC cable (Ø3 2x0.15mm²) | |
| Approx. 34g | Approx. 35g | |
| | Al. Approx. 0.45/ copper approx. 0.4 Stainless steel IP67 Shock, half-sinus, 30gn, 11ms 55Hz, 1mm ampl., 3x30min. IEC 60947-5-2 2 nuts 2m PVC cable (Ø3 2x0.15mm²) | |



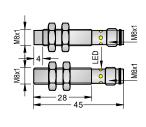
Features

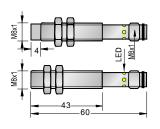
- M8mm diameter
 10-60VDC operating voltage
 Sn=1mm, shielded 2mm,non-shielded
- Stainless steel housing case
- Stainless steel active sensing face
- Short-circuit protection
 Overload protection Reverse polarity protection
- 2 Wire Output
 NO,NC Function
- M8 connector version
- IP67 Protection

EMC

Accessary Connection

Weight





(Unit: mm)





| (6 | | | | |
|-------------------------------------|---|---|--|----------------|
| Connection | 3 Pin M8 Connector | | 3 Pin M8 Connector | |
| Mounting | Shielded | Non-shielded | Shielded | Non-shielded |
| 2 Wire-NO | M6CC08X01F | M6CD08X02F | M6CE08X01F | M6CF08X02F |
| 2 Wire-NC | M6CC08Y01F | M6CD08Y02F | M6CE08Y01F | M6CF08Y02F |
| | | | | |
| General Data | | | | |
| Housing size | M | 8mm | M8r | nm |
| Installation type | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance(Sn: mm) | 1mm | 2mm | 1mm | 2mm |
| Standard sensing object | Steel 8x8x1mm | Steel 8x8x1mm | Steel 8x8x1mm | Steel 8x8x1mm |
| Effective sensing distance (Sr: mm) | 90 11 | 10% of Sn | 90 110 | % of Sn |
| Assured operating distance(Sa: mm) | 0 80 | 0% of Sn | 0 809 | 6 of Sn |
| Hysteresis | < | 15% | <15 | 5% |
| Housing material | Stainle | ess steel | Stainles | s steel |
| Operating voltage | 10 | 60VDC | 10 6 | 0VDC |
| Electrical Data | | | | |
| Rated operating voltage | 24VDC | | 24VDC | |
| Repeated accuracy | ±10% | | ±10 | 0% |
| Ripple | <10% | | <10 | 0% |
| No load current | <10mA | | <10r | mA |
| Max. Load current | 200mA | | 200 | mA |
| Leakage current | <0 | .01mA | <0.01mA | |
| Voltage drop | <4.5V | <4.5V | <4.5V | <4.5V |
| Switching frequency | 2000Hz | 2000Hz | 2000Hz | 2000Hz |
| Response time | 0.1ms/0.1ms | 0.1ms/0.1ms | 0.1ms/0.1ms | 0.1ms/0.1ms |
| Rated insulation voltage | 75) | VDC | 75VDC | |
| Operating temperature | -25°C | +70°C | -25°C +70°C | |
| Storage temperature | -40°C | +80°C | -40°C +80°C | |
| Temperature drift | < | 10% | <10% | |
| Power indicator | 1 | No | No | |
| Function indicator | Yello | w LED | Yellow LED | |
| Reverse polarity protection | , | Yes | Yes | |
| Short-circuit protection | , | Yes | Ye | es . |
| Overload trip point | 22 | 0mA | 220 | mA |
| Correction factors | Fe37 steel=1/stainless steel a Al. Approx. 0.45/ copper appi | approx. 0.85/brass approx. 0.5/ rox. 0.4 | Fe37 steel=1/stainless steel ap Al. Approx. 0.45/ copper approx | |
| Mechanical Data | | | | |
| Sensing surface material | Stainle | ess steel | Stainles | s steel |
| Protection | IF | P67 | IP6 | 67 |
| Shock rating | Shock, half-sii | nus, 30gn, 11ms | Shock, half-sinu | us, 30gn, 11ms |
| Vibration rating | 55Hz, 1mm a | ampl., 3x30min. | 55Hz, 1mm an | npl., 3x30min. |

IEC 60947-5-2

2 nuts

3 Pin M8 connector

Approx. 16g

IEC 60947-5-2 2 nuts

3 Pin M8 connector

Approx. 15g



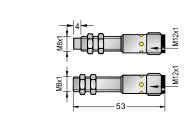
Features

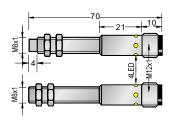
- M8mm diameter
 10-60VDC operating voltage
 Sn=1mm, shielded
- Zmm,non-shielded

 Stainless steel housing case

 Stainless steel active sensing face
- Short-circuit protection Overload protection
 Reverse polarity protection
- 2 Wire Output
- NO,NC Function
 M12 connector version
 IP67 Protection

Weight





(Unit: mm)





| CE | | | | |
|-------------------------------------|---|---------------------------------|--|---------------|
| Connection | 4 Pin M12 Con | nector | 4 Pin M12 0 | Connector |
| Mounting | Shielded | Non-shielded | Shielded | Non-shielded |
| 2 Wire-NO | M6CC08X01H | M6CD08X02H | M6CE08X01H | M6CF08X02H |
| 2 Wire-NC | M6CC08Y01H | M6CD08Y02H | M6CE08Y01H | M6CF08Y02H |
| General Data | | | | |
| Housing size | M8mm | | M8r | nm |
| Installation type | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance(Sn: mm) | 1mm | 2mm | 1mm | 2mm |
| Standard sensing object | Steel 8x8x1mm | Steel 8x8x1mm | Steel 8x8x1mm | Steel 8x8x1mm |
| Effective sensing distance (Sr: mm) | 90 110% c | | 90 110 | |
| Assured operating distance(Sa: mm) | 0 80% of | Sn | 0 80% | 6 of Sn |
| Hysteresis | <15% | | <15 | 5% |
| Housing material | Stainless st | eel | Stainles | ss steel |
| Operating voltage | 10 60VE | OC | 10 6 | 0VDC |
| Electrical Data | | | | |
| Rated operating voltage | 24VDC | | 24VDC | |
| Repeated accuracy | ±10% | | ±10% | |
| Ripple | <10% | | <10% | |
| No load current | <10mA | | <10r | mA |
| Max. Load current | 200mA | | 200mA | |
| Leakage current | <0.01m/ | 4 | <0.01mA | |
| Voltage drop | <4.5V | <4.5V | <4.5V | <4.5V |
| Switching frequency | 2000Hz | 2000Hz | 2000Hz | 2000Hz |
| Response time | 0.1ms/0.1ms | 0.1ms/0.1ms | 0.1ms/0.1ms | 0.1ms/0.1ms |
| Rated insulation voltage | 75VDC | | 75/1 | OC . |
| Operating temperature | -25°C +70 | 0°C | -25°C +70°C | |
| Storage temperature | -40°C +80 | 0°C | -40°C +80°C | |
| Temperature drift | <10% | | <10% | |
| Power indicator | No | | No | |
| Function indicator | Yellow LE | D | Yellow LED | |
| Reverse polarity protection | Yes | | Yes | |
| Short-circuit protection | Yes | | Ye | es . |
| Overload trip point | 220mA | | 220mA | |
| Correction factors | Fe37 steel=1/stainless steel approx Al. Approx. 0.45/ copper approx. 0.4 | t. 0.85/brass approx. 0.5/ 4 | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | |
| Mechanical Data | | | | |
| Sensing surface material | Stainless st | eel | Stainles | |
| Protection | IP67 | | IP6 | |
| Shock rating | Shock, half-sinus, 3 | | Shock, half-sinu | |
| Vibration rating | 55Hz, 1mm ampl., | | 55Hz, 1mm an | • |
| EMC | IEC 60947- | 5-2 | IEC 609 | 947-5-2 |
| Accessary | 2 nuts | | 2 nu | uts |
| Connection | 4 Pin M12 con | nector | 4 Pin M12 | connector |
| | | | 11 | · |

Approx. 22g

Approx. 20g



Features

- M12mm diameter
 10-60VDC operating voltage
 Sn=2mm, shielded 4mm,non-shielded
- Stainless steel housing case
- Stainless steel active sensing face
- Short-circuit protection Overload protection Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- Cable version
- IP67 Protection

Sensing surface material

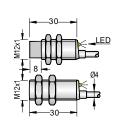
Protection

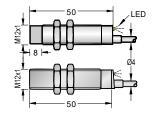
EMC

Accessary

Connection Weight

Shock rating Vibration rating





(Unit: mm)



(€

| Connection | 2m Cable | | 2m (| Cable |
|------------|------------|--------------|------------|--------------|
| Mounting | Shielded | Non-shielded | Shielded | Non-shielded |
| 2 Wire-NO | M6CC12X02A | M6CD12X04A | M6CE12X02A | M6CF12X04A |
| 2 Wire-NC | M6CC12Y02A | M6CD12Y04A | M6CE12Y02A | M6CF12Y04A |
| | | | | |

| General Data | | | | |
|-------------------------------------|-----------------|-------------------|-----------------|-----------------|
| Housing size | M12 | ?mm | M12 | 2mm |
| Installation type | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance(Sn: mm) | 2mm | 4mm | 2mm | 4mm |
| Standard sensing object | Steel 12x12x1mm | Steel 12x12x1mm | Steel 12x12x1mm | Steel 12x12x1mm |
| Effective sensing distance (Sr: mm) | 90 110% of Sn | | 90 110% of Sn | |
| Assured operating distance(Sa: mm) | 0 80 | 0 80% of Sn | | % of Sn |
| Hysteresis | <15% | | <1 | 5% |
| Housing material | Stainless steel | | Stainless steel | |
| Operating voltage | 10 6 | 10 60VDC 10 60VDC | | |

| Operating voltage | 10 60VDC | | 10 00VDC | | |
|-----------------------------|---|--|--|---|--|
| Electrical Data | | | | | |
| Rated operating voltage | 24\ | 24VDC | | 24VDC | |
| Repeated accuracy | ±1 | 0% | ±1 | 0% | |
| Ripple | <1 | 0% | <1 | 0% | |
| No load current | <10 |)mA | <10 | mA | |
| Max. Load current | 200 | 0mA | 200 |)mA | |
| Leakage current | <0.0 | 01mA | <0.0> | O1mA | |
| Voltage drop | <4.5V | <4.5V | <4.5V | <4.5V | |
| Switching frequency | 2000Hz | 1000Hz | 2000Hz | 2000Hz | |
| Response time | 0.1ms/0.1ms | 0.2ms/0.2ms | 0.1ms/0.1ms | 0.1ms/0.1ms | |
| Rated insulation voltage | 75\ | /DC | 75VDC | | |
| Operating temperature | -25°C . | +70°C | -25°C +70°C | | |
| Storage temperature | -40°C . | +80°C | -40°C +80°C | | |
| Temperature drift | <1 | 0% | <10% | | |
| Power indicator | 1 | No | No | | |
| Function indicator | Yello | w LED | Yellow LED | | |
| Reverse polarity protection | Y | ⁄es | Yes | | |
| Short-circuit protection | Yes | | Y | es | |
| Overload trip point | 220 | 0mA | 220 |)mA | |
| Correction factors | Fe37 steel=1/stainless steel a Al. Approx. 0.45/ copper approx | approx. 0.85/brass approx. 0.5/ ox. 0.4 | Fe37 steel=1/stainless steel a Al. Approx. 0.45/ copper appro | pprox. 0.85/brass approx. 0.5/ ox. 0.4 | |
| Mechanical Data | | | | | |

Stainless steel

IP67

Shock, half-sinus, 30gn, 11ms

55Hz, 1mm ampl., 3x30min.

IEC 60947-5-2

2 nuts

2m PVC cable (Ø4 2x0.34mm²)

Approx. 67g

Stainless steel

IP67

Shock, half-sinus, 30gn, 11ms

55Hz, 1mm ampl., 3x30min.

IEC 60947-5-2

2 nuts

2m PVC cable (Ø4 2x0.34mm²)

Approx. 65g

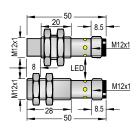


Features

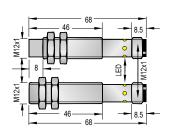
- M12mm diameter
 10-60VDC operating voltage
 Sn=2mm, shielded

- 4mm,non-shielded

 Stainless steel housing case
 Stainless steel active sensing face
 Short-circuit protection - Snort-circuit protection
 Overload protection
 Reverse polarity protection
 - 2 Wire Output
 - NO,NC Function
 - M12 connector version
 - 1P67 Protection



(Unit: mm)



(Unit: mm)



(€



| Connection | 4 Pin M12 Connector | | 4 Pin M12 | Connector |
|------------|---------------------|--------------|------------|--------------|
| Mounting | Shielded | Non-shielded | Shielded | Non-shielded |
| 2 Wire-NO | M6CC12X02H | M6CD12X04H | M6CE12X02H | M6CF12X04H |
| 2 Wire-NC | M6CC12Y02H | M6CD12Y04H | M6CE12Y02H | M6CF12Y04H |
| | | | | |

| General Data | | | | |
|-------------------------------------|--------------------------------|-----------------|-----------------|-----------------|
| Housing size | M12 | mm | M1: | 2mm |
| Installation type | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance(Sn: mm) | 2mm | 4mm | 2mm | 4mm |
| Standard sensing object | Steel 12x12x1mm | Steel 12x12x1mm | Steel 12x12x1mm | Steel 12x12x1mm |
| Effective sensing distance (Sr: mm) | 90 110% of Sn | | 90 110% of Sn | |
| Assured operating distance(Sa: mm) | 0 809 | 0 80% of Sn | | % of Sn |
| Hysteresis | <15% | | <1 | 5% |
| Housing material | Stainless steel | | Stainless steel | |
| Operating voltage | ting voltage 10 60VDC 10 60VDC | | 60VDC | |

| -1 3 3 | | | | |
|-----------------------------|---|--|-------------|--|
| Electrical Data | | | | |
| Rated operating voltage | 24\ | /DC | 24VDC | |
| Repeated accuracy | ±1 | 0% | ± | 10% |
| Ripple | <1 | 10% | < | 10% |
| No load current | <10 |)mA | <1 | 0mA |
| Max. Load current | 200 | 0mA | 20 | 0mA |
| Leakage current | <0. | 01mA | <0 | .01mA |
| Voltage drop | <4.5V | <4.5V | <4.5V | <4.5V |
| Switching frequency | 2000Hz | 1000Hz | 2000Hz | 1000Hz |
| Response time | 0.1ms/0.1ms | 0.2ms/0.2ms | 0.1ms/0.1ms | 0.2ms/0.2ms |
| Rated insulation voltage | 75\ | /DC | 75VDC | |
| Operating temperature | -25°C . | +70°C | -25°C +70°C | |
| Storage temperature | -40°C . | +80°C | -40°C +80°C | |
| Temperature drift | <1 | 10% | <10% | |
| Power indicator | 1 | No | No | |
| Function indicator | Yello | w LED | Yellow LED | |
| Reverse polarity protection | Y | ′es | Yes | |
| Short-circuit protection | Y | 'es | , | /es |
| Overload trip point | 220 | 0mA | 22 | 0mA |
| Correction factors | Fe37 steel=1/stainless steel a Al. Approx. 0.45/ copper appr | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | | approx. 0.85/brass approx. 0.5/ ox. 0.4 |
| Mechanical Data | | | | |

| Correction factors | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | |
|--------------------------|--|--|--|
| Mechanical Data | | | |
| Sensing surface material | Stainless steel | Stainless steel | |
| Protection | IP67 | IP67 | |
| Shock rating | Shock, half-sinus, 30gn, 11ms | Shock, half-sinus, 30gn, 11ms | |
| Vibration rating | 55Hz, 1mm ampl., 3x30min. | 55Hz, 1mm ampl., 3x30min. | |
| EMC | IEC 60947-5-2 | IEC 60947-5-2 | |
| Accessary | 2 nuts | 2 nuts | |
| Connection | 4 Pin M12 connector | 4 Pin M12 connector | |
| Weight | Approx. 65g | Approx. 65g | |
| | • | - | |

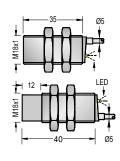


Features

- MI8mm diameter
 10-60VDC operating voltage
 Sn=5mm, shielded 8mm,non-shielded
- Stainless steel housing case
 Stainless steel active sensing face
- Short-circuit protection Overload protection
 Reverse polarity protection
- 2 Wire Output

Weight

NO,NC Function
Cable version
IP67 Protection



İ

(Unit: mm)



(Unit: mm)



| C€ | | 36.7 | | |
|-------------------------------------|--|-----------------|--|-----------------|
| Connection | 2m Cable | | 2m Cable | |
| Mounting | Shielded | Non-shielded | Shielded | Non-shielded |
| 2 Wire-NO | M6CC18X05A | M6CD18X08A | M6CE18X05A | M6CF18X08A |
| 2 Wire-NC | M6CC18Y05A | M6CD18Y08A | M6CE18Y05A | M6CF18Y08A |
| General Data | | | | |
| Housing size | M18 | | M18 | |
| Installation type | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance(Sn: mm) | 5mm | 8mm | 5mm | 8mm |
| Standard sensing object | Steel 18x18x1mm | Steel 24x24x1mm | Steel 18x18x1mm | Steel 24x24x1mm |
| Effective sensing distance (Sr: mm) | 90 110% | of Sn | 90 110 | % of Sn |
| Assured operating distance(Sa: mm) | 0 80% | of Sn | 0 809 | % of Sn |
| Hysteresis | <15% | b | <15 | 5% |
| Housing material | Stainless | steel | Stainles | s steel |
| Operating voltage | 10 60\ | /DC | 10 6 | 0VDC |
| Electrical Data | | | | |
| Rated operating voltage | 24VDC | | 24VDC | |
| Repeated accuracy | ±10% | | ±10% | |
| Ripple | <10% | | <10% | |
| No load current | <10mA | | <10mA | |
| Max. Load current | 200mA | | 200mA | |
| Leakage current | <0.01mA | | <0.01mA | |
| Voltage drop | <4.5V | <4.5V | <4.5V | <4.5V |
| Switching frequency | 1000Hz | 500Hz | 2000Hz | 1000Hz |
| Response time | 0.2ms/0.2ms | 0.5ms/0.5ms | 0.1ms/0.1ms | 0.2ms/0.2ms |
| Rated insulation voltage | 75VD0 | | 75VI | DC |
| Operating temperature | -25°C +70°C | | -25°C +70°C | |
| Storage temperature | -40°C + | | -40°C +80°C | |
| Temperature drift | <10% | | <10% | |
| Power indicator | No | | No | |
| Function indicator | Yellow L | FD | Yellow LED | |
| Reverse polarity protection | Yes | | Yes | |
| Short-circuit protection | Yes | | Yes | |
| Overload trip point | Yes 220mA | | 220mA | |
| Correction factors | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | |
| Mechanical Data | | | | |
| Sensing surface material | Stainless steel | | Stainless steel | |
| Protection | IP67 | | IP67 | |
| Shock rating | Shock, half-sinus, 30gn, 11ms | | Shock, half-sinus, 30gn, 11ms | |
| Vibration rating | 55Hz, 1mm amp | I., 3x30min. | 55Hz, 1mm ampl., 3x30min. | |
| EMC | IEC 6094 | | IEC 60947-5-2 | |
| Accessary | 2 nuts | S | 2 n | uts |
| Connection | 2m PVC cable (Ø | 5 2x0.5mm²) | 2m PVC cable | (Ø5 2x0.5mm²) |
| Mainh | Anney #1 122= | | Anney 452 | |

Approx. 153g

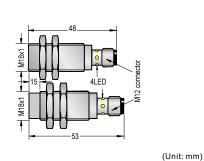
Approx.约 132g

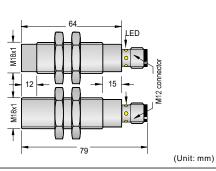


Features

- MI8mm diameter
 10-60VDC operating voltage
 Sn=5mm, shielded
- 8mm,non-shielded
- Stainless steel housing case
- Stainless steel active sensing face
- Short-circuit protection
 Overload protection Reverse polarity protection
- 2 Wire OutputNO,NC Function
- M12 connector version
 IP67 Protection

Weight









| Connection 4 Pin M12 Connector Mounting Shielded Non-shielded 2 Wire-NO M6CC18X05H M6CD18X08H 2 Wire-NC M6CC18Y05H M6CD18Y08H General Data Housing size M18 Installation type Shielded Non-shielded Sensing distance(Sn: mm) 5mm 8mm Standard sensing object Steel 18x18x1mm Steel 24x24x1mm Effective sensing distance (Sr: mm) 90 110% of Sn Assured operating distance (Sa: mm) 0 80% of Sn Hysteresis <15% Housing material Stainless steel Operating voltage 10 60VDC Electrical Data Rated operating voltage 24VDC Repeated accuracy ±10% Ripple <10% No load current <10mA | 4 Pin M12 0 Shielded M6CE18X05H M6CE18Y05H | Connector Non-shielded |
|--|--|---------------------------|
| 2 Wire-NO M6CC18X05H M6CD18X08H 2 Wire-NC M6CC18Y05H M6CD18Y08H M6CC18Y05H M6CD18Y08H Wire-NC M6CD18Y08H M6CD18Y08H W6CD18Y08H W6CD18Y08H M6CD18Y08H M6CD18Y08H W6CD18Y08H W18 M6CD18Y08H M6CD18Y08H M18 M18 Shelded Non-shielded Non-shielded Shelded Non-shielded Non-shielded Steel 24x24x1mm Steel 24x24x24x1mm Steel 18x18x1mm Steel 24x24x24x1mm Steel 24x24x24x1mm Steel 24x24x24x1mm Steel 18x18x1mm Steel 24x24x24x1mm Steel 24x24x24x1mm Steel 24x24x24x1mm Steel 24x24x24x1mm Steel 24x24x1mm </th <th>M6CE18X05H</th> <th>Non-shielded</th> | M6CE18X05H | Non-shielded |
| 2 Wire-NC M6CC18Y05H M6CD18Y08H General Data Housing size M18 Installation type Shielded Non-shielded Sensing distance(Sn: mm) 5mm 8mm Standard sensing object Steel 18x18x1mm Steel 24x24x1mm Effective sensing distance (Sr: mm) 90 110% of Sn Assured operating distance (Sa: mm) 0 80% of Sn Hysteresis <15% | | |
| Ceneral Data | MCCE40V0ELL | M6CF18X08H |
| Housing size | MOCETOTUSH | M6CF18Y08H |
| M18 Installation type | | |
| Shielded | | |
| Sensing distance(Sn: mm) 5mm 8mm Standard sensing object Steel 18x18x1mm Steel 24x24x1mm Effective sensing distance (Sr: mm) 90 110% of Sn Assured operating distance(Sa: mm) 0 80% of Sn Hysteresis <15% | M18 | |
| Standard sensing object Steel 18x18x1mm Steel 24x24x1mm Effective sensing distance (Sr: mm) 90 110% of Sn Assured operating distance(Sa: mm) 0 80% of Sn Hysteresis <15% | Shielded | Non-shielded |
| Effective sensing distance (Sr: mm) 90 110% of Sn Assured operating distance(Sa: mm) 0 80% of Sn Hysteresis <15% | 5mm | 8mm |
| Assured operating distance(Sa: mm) Hysteresis Coperating voltage Rated operating voltage Repeated accuracy Ripple Oui 80% of Sn Control Stainless steel Coperating voltage Coperating voltage Comparison of Stainless steel Coperating voltage Coperating v | Steel 18x18x1mm | Steel 24x24x1mm |
| Hysteresis | 90 110 | % of Sn |
| Housing material Stainless steel | 0 809 | 6 of Sn |
| Operating voltage 10 60VDC Electrical Data 24VDC Rated operating voltage 24VDC Repeated accuracy ±10% Ripple <10% | <15 | j% |
| Electrical Data Rated operating voltage 24VDC Repeated accuracy ±10% Ripple <10% | Stainles | is steel |
| Rated operating voltage 24VDC Repeated accuracy ±10% Ripple <10% | 10 6 | 0VDC |
| Repeated accuracy ±10% Ripple <10% | | |
| Ripple <10% | 24VDC | |
| THE STATE OF THE S | ±10% | |
| No load current <10mA | <10% | |
| 11 | <10mA | |
| Max. Load current 200mA | 200mA | |
| Leakage current <0.01mA | <0.01mA | |
| Voltage drop <4.5V <4.5V | <4.5V | <4.5V |
| Switching frequency 1000Hz 500Hz | 1000Hz | 500Hz |
| Response time 0.2ms/0.2ms 0.5ms/0.5ms | 0.2ms/0.2ms | 0.5ms/0.5ms |
| Rated insulation voltage 75VDC | 75VI | DC . |
| Operating temperature -25°C +70°C | -25°C +70°C | |
| Storage temperature -40°C +80°C | -40°C +80°C | |
| Temperature drift <10% | <10% | |
| Power indicator No | No | |
| Function indicator Yellow LED | Yellow LED | |
| Reverse polarity protection Yes | Yes | |
| Short-circuit protection Yes | Yes | |
| Overload trip point 220mA | 220mA | |
| Correction factors Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | |
| Mechanical Data | | |
| Sensing surface material Stainless steel | Stainles | ss steel |
| Protection IP67 | IP67 | |
| Shock rating Shock, half-sinus, 30gn, 11ms | Shock, half-sinus, 30gn, 11ms | |
| Vibration rating 55Hz, 1mm ampl., 3x30min. | 55Hz, 1mm ampl., 3x30min. | |
| EMC IEC 60947-5-2 | IEC 60947-5-2 | |
| Accessary 2 nuts | 120 000 | |
| Connection 4 Pin M12 connector | 2 n | |

Approx. 94g

Approx. 50g



Features

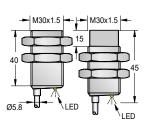
- M30mm diameter
 10-60VDC operating voltage
 Sn=10mm, shielded
- 15mm,non-shielded

 Stainless steel housing case
- Stainless steel active sensing face
- Short-circuit protection Overload protection Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- Cable version

Accessary

Connection Weight

■ IP67 Protection



M30x1.5 M30x1.5 15 Ø5.8

(Unit: mm)





(€

| Connection | 2m Cable | | 2m Cable | |
|-------------------------------------|--|-----------------|--|-----------------|
| Mounting | Shielded | Non-shielded | Shielded | Non-shielded |
| 2 Wire-NO | M6CC30X10A | M6CD30X15A | M6CE30X10A | M6CF30X15A |
| 2 Wire-NC | M6CC30Y10A | M6CD30Y15A | M6CE30Y10A | M6CF30Y15A |
| | | | | |
| | | | | |
| General Data | | | | |
| Housing size | M30 | mm | M3 | 0mm |
| Installation type | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance(Sn: mm) | 10mm | 15mm | 10mm | 15mm |
| Standard sensing object | Steel 30x30x1mm | Steel 45x45x1mm | Steel 30x30x1mm | Steel 45x45x1mm |
| Effective sensing distance (Sr: mm) | 90 110 | 0% of Sn | 90 11 | 0% of Sn |
| Assured operating distance(Sa: mm) | 0 80 | % of Sn | 0 80 | % of Sn |
| Hysteresis | <1! | 5% | <1 | 5% |
| Housing material | Stainle | ss steel | Stainle | ess steel |
| Operating voltage | 10 6 | 60VDC | 10 | 60VDC |
| Electrical Data | | | | |
| Rated operating voltage | 24VDC | | 24VDC | |
| Repeated accuracy | ±10% | | ±10% | |
| Ripple | <10% | | <10% | |
| No load current | <10mA | | <10mA | |
| Max. Load current | 200mA | | 200mA | |
| Leakage current | <0.01mA | | <0.01mA | |
| Voltage drop | <4.5V | <4.5V | <4.5V | <4.5V |
| Switching frequency | 300Hz | 150Hz | 300Hz | 150Hz |
| Response time | 0.5ms/0.5ms | 1ms/1ms | 0.5ms/0.5ms | 1ms/1ms |
| Rated insulation voltage | 75VDC | | 75VDC | |
| Operating temperature | -25°C | . +70°C | -25°C +70°C | |
| Storage temperature | -40°C | . +80°C | -40°C +80°C | |
| Temperature drift | <10% | | <10% | |
| Power indicator | N | 0 | No | |
| Function indicator | Yellow LED | | Yellow LED | |
| Reverse polarity protection | Yes | | Yes | |
| Short-circuit protection | Yes | | Yes | |
| Overload trip point | 220mA | | 220mA | |
| Correction factors | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | |
| Mechanical Data | | | | |
| Sensing surface material | Stainless steel | | Stainless steel | |
| Protection | IP67 | | IP67 | |
| Shock rating | Shock, half-sin | us, 30gn, 11ms | Shock, half-sinus, 30gn, 11ms | |
| Vibration rating | 55Hz, 1mm ar | mpl., 3x30min. | 55Hz, 1mm a | mpl., 3x30min. |
| EMC | IEC 609 | 947-5-2 | IEC 60 | 947-5-2 |
| | | | | |

2 nuts

2m PVC cable (Ø5.8 2x0.5mm²)

Approx. 217g

2 nuts

2m PVC cable (Ø5.8 2x0.5mm²)

Approx. 180g



Features

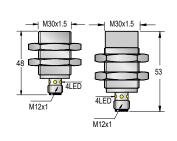
- M30mm diameter
 10-60VDC operating voltage
 Sn=10mm, shielded 15mm,non-shielded
- Stainless steel housing case
- Stainless steel active sensing face
- Short-circuit protection Overload protection Reverse polarity protection

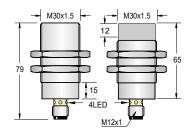
 2 Wire Output

 NO,NC Function

 M12 connector version

 1P67 Protection









(€

| Connection | 4 Pin M12 Connector | | 4 Pin M12 Connector | |
|--------------|---------------------|--------------|---------------------|--------------|
| Mounting | Shielded | Non-shielded | Shielded | Non-shielded |
| 2 Wire-NO | M6CC30X10H | M6CD30X15H | M6CE30X10H | M6CF30X15H |
| 2 Wire-NC | M6CC30Y10H | M6CD30Y15H | M6CE30Y10H | M6CF30Y15H |
| | | | | |
| | | | | |
| General Data | | | | |
| | Mag | | Mac | · · · · · |

(Unit: mm)

| General Data | | | | |
|-------------------------------------|---------------------------------|--------------|-----------------|-----------------|
| Housing size | M30mm | | M30mm | |
| Installation type | Shielded | Non-shielded | Shielded | Non-shielded |
| Sensing distance(Sn: mm) | 10mm | 15mm | 10mm | 15mm |
| Standard sensing object | Steel 30x30x1mm Steel 45x45x1mm | | Steel 30x30x1mm | Steel 45x45x1mm |
| Effective sensing distance (Sr: mm) | 90 110% of Sn | | 90 110% of Sn | |
| Assured operating distance(Sa: mm) | 0 80% of Sn | | 0 80% of Sn | |
| Hysteresis | <15% | | <15% | |
| Housing material | Stainless steel | | Stainless steel | |
| Operating voltage | 10 60VDC | | 10 60VDC | |

| Operating voltage | 10 60VDC | | 10 60VDC | | |
|-----------------------------|-------------|--|-------------|--|--|
| Electrical Data | | | | | |
| Rated operating voltage | 24VDC | | 24VDC | | |
| Repeated accuracy | ±10% | | ±10% | | |
| Ripple | <10% | | <10% | | |
| No load current | <10mA | | <10mA | | |
| Max. Load current | 200mA | | 200mA | | |
| Leakage current | <0.01mA | | <0.01mA | | |
| Voltage drop | <4.5V | <4.5V | <4.5V | <4.5V | |
| Switching frequency | 300Hz | 150Hz | 300Hz | 150Hz | |
| Response time | 0.5ms/0.5ms | 1ms/1ms | 0.5ms/0.5ms | 1ms/1ms | |
| Rated insulation voltage | 75VDC | | 75VDC | | |
| Operating temperature | -25°C +70°C | | -25°C +70°C | | |
| Storage temperature | -40°C +80°C | | -40°C +80°C | | |
| Temperature drift | <10% | | <10% | | |
| Power indicator | No | | No | | |
| Function indicator | Yellow LED | | Yellow LED | | |
| Reverse polarity protection | Yes | | Yes | | |
| Short-circuit protection | Yes | | Yes | | |
| Overload trip point | 220mA | | 220mA | | |
| Correction factors | | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | |

| Overload trip point | 220mA | [] 220mA |
|--------------------------|--|--|
| Correction factors | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 | Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4 |
| Mechanical Data | | |
| Sensing surface material | Stainless steel | Stainless steel |
| Protection | IP67 | IP67 |
| Shock rating | Shock, half-sinus, 30gn, 11ms | Shock, half-sinus, 30gn, 11ms |
| Vibration rating | 55Hz, 1mm ampl., 3x30min. | 55Hz, 1mm ampl., 3x30min. |
| EMC | IEC 60947-5-2 | IEC 60947-5-2 |
| Accessary | 2 nuts | 2 nuts |
| Connection | 4 Pin M12 connector | 4 Pin M12 connector |
| Weight | Approx. 111g | Approx. 207g |