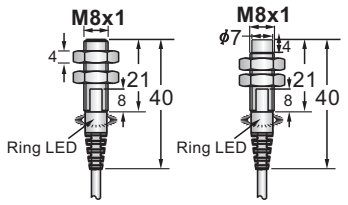
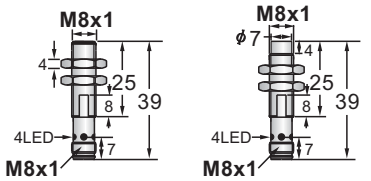
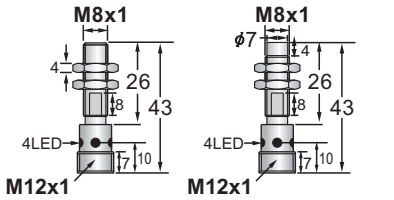
# DC HIGH TORQUE, LONG SENSING RANGE (SHORT BODY)



| M8 | | M8 | | M8 | |
|---|---|---|---|---|---|
| ● | ○ | ● | ○ | ● | ○ |
| 3.0 | 6.0 | 3.0 | 6.0 | 3.0 | 6.0 |
| Stainless steel | | Nickel plated brass | | Nickel plated brass | |
| ● | | ● | | ● | |



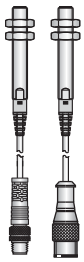




| | | |
|---|---|---|
| 10-30 VDC | | |
| 10% max. | | |
| 9x9x1 mm | 18x18x1 mm | |
| 1,000Hz | | |
| 10mA max. | | |
| 200mA max. | | |
| —— | | |
| 2V max. | | |
| ⩽ 15% of sensing distance | | |
| IP67 | | |
| -25°C to 70°C | | |
| Operating: 35% to 95% | | |
| <10% | | |
| YES | | |
| YES | | |
| RFI>3V/m / EFT>1KV / ESD>4KV (contact) | | |
| IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2 | | |
| PBT | | |
| OCN1-0803N-A3S2 | 1 | ~~OCN2-0806N-A3S2~~ |
| OCN1-0803N-B3S2 | 2 | ~~OCN2-0806N-B3S2~~ |
| OCN1-0803P-A3S2 | 3 | ~~OCN2-0806P-A3S2~~ |
| OCN1-0803P-B3S2 | 4 | ~~OCN2-0806P-B3S2~~ |

| | | |
|---|---|---|
| 10-30 VDC | | |
| 10% max. | | |
| 9x9x1 mm | 18x18x1 mm | |
| 1,000Hz | | |
| 10mA max. | | |
| 200mA max. | | |
| —— | | |
| 2V max. | | |
| ⩽ 15% of sensing distance | | |
| IP67 | | |
| -25°C to 70°C | | |
| Operating: 35% to 95% | | |
| <10% | | |
| YES | | |
| YES | | |
| RFI>3V/m / EFT>1KV / ESD>4KV (contact) | | |
| IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2 | | |
| PBT | | |
| OCN1-0803N-ACS3 | 29 | ~~OCN2-0806N-ACS3~~ |
| OCN1-0803N-BCS3 | 29 | ~~OCN2-0806N-BCS3~~ |
| OCN1-0803P-ACS3 | 30 | ~~OCN2-0806P-ACS3~~ |
| OCN1-0803P-BCS3 | 30 | ~~OCN2-0806P-BCS3~~ |

| | | |
|---|---|---|
| 10-30 VDC | | |
| 10% max. | | |
| 9x9x1 mm | 18x18x1 mm | |
| 1,000Hz | | |
| 10mA max. | | |
| 200mA max. | | |
| —— | | |
| 2V max. | | |
| ⩽ 15% of sensing distance | | |
| IP67 | | |
| -25°C to 70°C | | |
| Operating: 35% to 95% | | |
| <10% | | |
| YES | | |
| YES | | |
| RFI>3V/m / EFT>1KV / ESD>4KV (contact) | | |
| IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2 | | |
| PBT | | |
| OCN1-0803N-ARS4 | 33 | ~~OCN2-0806N-ARS4~~ |
| OCN1-0803N-BRS4 | 34 | ~~OCN2-0806N-BRS4~~ |
| OCN1-0803P-ARS4 | 35 | ~~OCN2-0806P-ARS4~~ |
| OCN1-0803P-BRS4 | 36 | ~~OCN2-0806P-BRS4~~ |

## Pigtail types



Note:
The standard cable length is 300mm.
Any other length can be made by request.
The relevant part number is with suffix "P8、P12", for example:

OCN1-0803N-A3S0.3/P8
M8 pigtail mode

OCN1-0803N-A3S0.3/P12
M12 pigtail mode

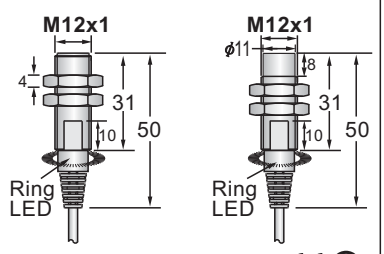
| | | |
|---|---|---|
| 3 ϕ 3x0.15 | | |
| Approx.65 g | Approx.15 g | Approx.20 g |

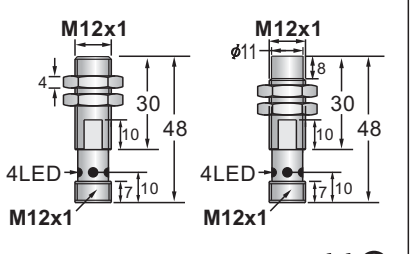
Note:
Coming Soon : Part numbers with underline
In Preparation: Part numbers with a line through the middle

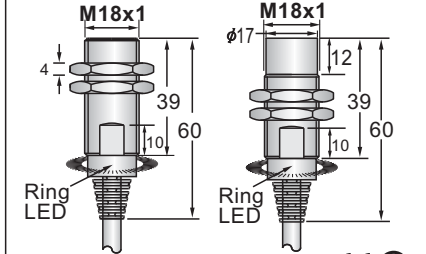
# DC HIGH TORQUE, LONG SENSING RANGE (SHORT BODY)



| M12 | | M12 | | M18 | |
|---|---|---|---|---|---|
| ● | ○ | ● | ○ | ● | ○ |
| 6.0 | 10.0 | 6.0 | 10.0 | 12.0 | 20.0 |
| Nickel plated brass | | Nickel plated brass | | Nickel plated brass | |
| ● | | ● | | ● | |




| | | | | | |
|---|---|---|---|---|---|
| 10-30 VDC | | 10-30 VDC | | 10-30 VDC | |
| 10% max. | | 10% max. | | 10% max. | |
| 18x18x1 mm | 30x30x1 mm | 18x18x1 mm | 30x30x1 mm | 36x36x1 mm | 60x60x1 mm |
| 1,000Hz | 500Hz | 1,000Hz | 500Hz | 300Hz | 100Hz |
| 10mA max. | | 10mA max. | | 10mA max. | |
| 200mA max. | | 200mA max. | | 200mA max. | |
| —— | | —— | | —— | |
| 2V max. | | 2V max. | | 2V max. | |
| ⩽ 15% of sensing distance | | ⩽ 15% of sensing distance | | ⩽ 15% of sensing distance | |
| IP67 | | IP67 | | IP67 | |
| -25°C to 70°C | | -25°C to 70°C | | -25°C to 70°C | |
| Operating: 35% to 95% | | Operating: 35% to 95% | | Operating: 35% to 95% | |
| <10% | | <10% | | <10% | |
| YES | | YES | | YES | |
| YES | | YES | | YES | |
| RFI>3V/m / EFT>1KV / ESD>4KV (contact) | | RFI>3V/m / EFT>1KV / ESD>4KV (contact) | | RFI>3V/m / EFT>1KV / ESD>4KV (contact) | |
| IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2 | | IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2 | | IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2 | |
| PBT | | PBT | | PBT | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| OCN1-1206N-A3S2 | 1 | OCN2-1210N-A3S2 | OCN1-1206N-ARS4 | 33 | OCN2-1210N-ARS4 | OCN1-1812N-A3S2 | 1 | OCN2-1820N-A3S2 |
| OCN1-1206N-B3S2 | 2 | OCN2-1210N-B3S2 | OCN1-1206N-BRS4 | 34 | OCN2-1210N-BRS4 | OCN1-1812N-B3S2 | 2 | OCN2-1820N-B3S2 |
| OCN1-1206P-A3S2 | 3 | OCN2-1210P-A3S2 | OCN1-1206P-ARS4 | 35 | OCN2-1210P-ARS4 | OCN1-1812P-A3S2 | 3 | OCN2-1820P-A3S2 |
| OCN1-1206P-B3S2 | 4 | OCN2-1210P-B3S2 | OCN1-1206P-BRS4 | 36 | OCN2-1210P-BRS4 | OCN1-1812P-B3S2 | 4 | OCN2-1820P-B3S2 |

### Pigtail types

Note:
The standard cable length is 300mm. Any other length can be made by request.
The relevant part number is with suffix "P8、P12", for example:
OCN1-1206N-A3S0.3/P8
M8 pigtail mode
OCN1-1206N-A3S0.3/P12
M12 pigtail mode

### Pigtail types

Note:
The standard cable length is 300mm. Any other length can be made by request.
The relevant part number is with suffix " P12 " , for example:
OCN1-1811N-A3S0.3/P12
M12 pigtail mode

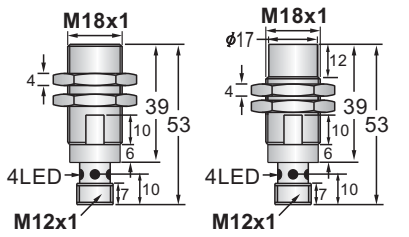
| | | |
|---|---|---|
| 4 ϕ 3x0.15 | | 5.0 ϕ 44x0.1 |
| Approx.85 g | Approx.35 g | Approx.160 g |

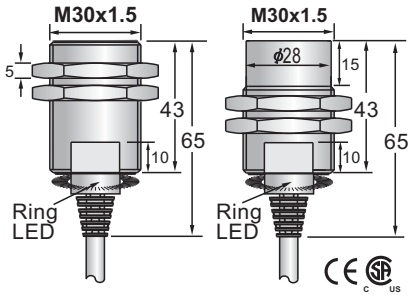
Note:
Coming Soon : Part numbers with underline

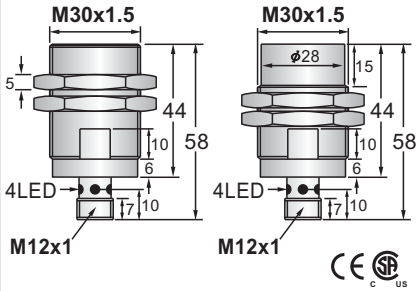
# DC HIGH TORQUE, LONG SENSING RANGE (SHORT BODY)



| M18 | | M30 | | M30 | |
|---|---|---|---|---|---|
| ● | ○ | ● | ○ | ● | ○ |
| 12.0 | 20.0 | 22.0 | 40.0 | 22.0 | 40.0 |
| Nickel plated brass | | Nickel plated brass | | Nickel plated brass | |
| ● | | ● | | ● | |




| | | | | | |
|---|---|---|---|---|---|
| 10-30 VDC | | 10-30 VDC | | 10-30 VDC | |
| 10% max. | | 10% max. | | 10% max. | |
| 36x36x1 mm | 60x60x1 mm | 66x66x1 mm | 120x120x1 mm | 66x66x1 mm | 120x120x1 mm |
| 300Hz | 100Hz | 300Hz | 100Hz | 300Hz | 100Hz |
| 10mA max. | | 10mA max. | | 10mA max. | |
| 200mA max. | | 200mA max. | | 200mA max. | |
| —— | | —— | | —— | |
| 2V max. | | 2V max. | | 2V max. | |
| ⩽ 15% of sensing distance | | ⩽ 15% of sensing distance | | ⩽ 15% of sensing distance | |
| IP67 | | IP67 | | IP67 | |
| -25°C to 70°C | | -25°C to 70°C | | -25°C to 70°C | |
| Operating: 35% to 95% | | Operating: 35% to 95% | | Operating: 35% to 95% | |
| <10% | | <10% | | <10% | |
| YES | | YES | | YES | |
| YES | | YES | | YES | |
| RFI>3V/m / EFT>1KV / ESD>4KV (contact) | | RFI>3V/m / EFT>1KV / ESD>4KV (contact) | | RFI>3V/m / EFT>1KV / ESD>4KV (contact) | |
| IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2 | | IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2 | | IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2 | |
| PBT | | PBT | | PBT | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| OCN1-1812N-ARS4 | 33 | OCN2-1820N-ARS4 | OCN1-3022N-A3S2 | 1 | OCN2-3040N-A3S2 | OCN1-3022N-ARS4 | 33 | OCN2-3040N-ARS4 |
| OCN1-1812N-BRS4 | 34 | OCN2-1820N-BRS4 | OCN1-3022N-B3S2 | 2 | OCN2-3040N-B3S2 | OCN1-3022N-BRS4 | 34 | OCN2-3040N-BRS4 |
| OCN1-1812P-ARS4 | 35 | OCN2-1820P-ARS4 | OCN1-3022P-A3S2 | 3 | OCN2-3040P-A3S2 | OCN1-3022P-ARS4 | 35 | OCN2-3040P-ARS4 |
| OCN1-1812P-BRS4 | 36 | OCN2-1820P-BRS4 | OCN1-3022P-B3S2 | 4 | OCN2-3040P-B3S2 | OCN1-3022P-BRS4 | 36 | OCN2-3040P-BRS4 |

**Pigtail types**

Note:
The standard cable length is 300mm.
Any other length can be made by request.
The relevant part number is with suffix " P12 ", for example:
OCN1-3020N-A3S0.3/P12
M12 pigtail mode

| | | |
|---|---|---|
| | 5.8ϕ3x0.5 | |
| Approx.70 g | Approx.280 g | Approx.200 g |

Note:
Coming Soon : Part numbers with underline