

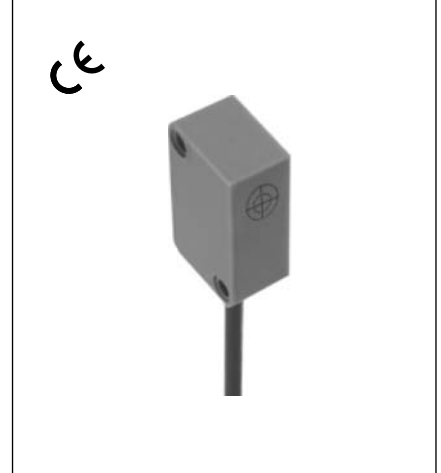
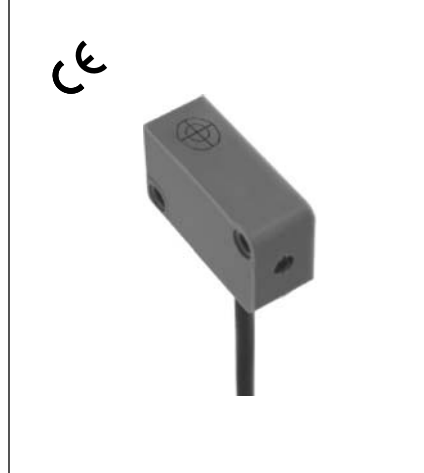
EXTENDED RANGE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

| |
|------------------------------|
| Diameter |
| ● Shielded ○ non-Shielded |
| Switching Distance, Sn: mm |
| Housing Material |
| ● With LED ○ Without LED |

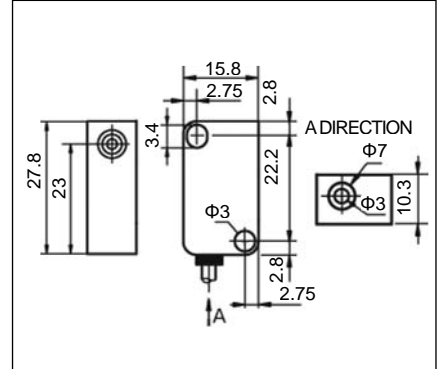
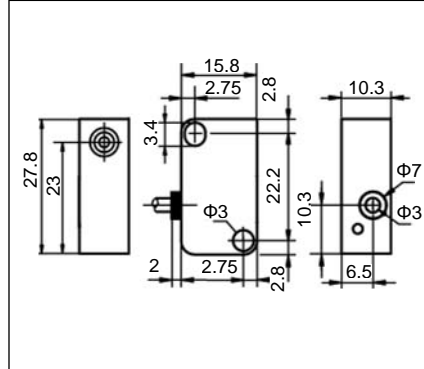
| | |
|-----------|------|
| Q16x28x10 | |
| ● | ○ |
| 2 mm | 4 mm |
| PBT | |
| ● | |

| | |
|-----------|------|
| Q16x28x10 | |
| ● | ○ |
| 2 mm | 4 mm |
| PBT | |
| ● | |

Picture



Dimensions (unit: mm)



| |
|--------------------------|
| Ripple |
| No Load Current |
| Max. Load current |
| Leakage Current |
| Voltage Drop |
| Switching Frequency |
| Response Time |
| Switching Hysteresis |
| Repeat Accuracy |
| Protection Category |
| Operating Temperature |
| Temperature Drift |
| Short Circuit Protection |
| Overload Trip Point |
| Material Active Face |

| |
|----------------------------|
| <10% |
| <10mA |
| 200mA |
| <0.01mA |
| <2.0V |
| 2KHz 1KHz |
| 0.1ms/0.1ms 0.2ms/0.2ms |
| <15%(Sr) |
| <1.0%(Sr) |
| IP67 |
| -25°C - +70°C |
| <10%(Sr) |
| Yes |
| 220mA |
| PBT |

| |
|----------------------------|
| <10% |
| <10mA |
| 200mA |
| <0.01mA |
| <2.0V |
| 2KHz 1KHz |
| 0.1ms/0.1ms 0.2ms/0.2ms |
| <15%(Sr) |
| <1.0%(Sr) |
| IP67 |
| -25°C - +70°C |
| <10%(Sr) |
| Yes |
| 220mA |
| PBT |

| |
|-----------------|
| Connecting type |
| Weight |

| |
|-------------------------|
| 2M Cable (2.9 φ 3x0.15) |
| approx.55 g |

| |
|-------------------------|
| 2M Cable (2.9 φ 3x0.15) |
| approx.55 g |

| |
|---------------------------|
| DC 3 wire 10-30V NPN N.O. |
| DC 3 wire 10-30V NPN N.C. |
| DC 3 wire 10-30V PNP N.O. |
| DC 3 wire 10-30V PNP N.C. |
| DC 3 wire 10-55V NPN N.O. |
| DC 3 wire 10-55V NPN N.C. |
| DC 3 wire 10-55V PNP N.O. |
| DC 3 wire 10-55V PNP N.C. |
| DC 3 wire 5-36 V NPN N.O. |
| DC 3 wire 5-36 V NPN N.C. |
| DC 3 wire 5-36 V PNP N.O. |
| DC 3 wire 5-36 V PNP N.C. |

| | | |
|------------------|----|------------------|
| IPS-Q2802N-A1LN2 | 1* | IPN-Q2804N-A1LN2 |
| IPS-Q2802N-B1LN2 | 2 | IPN-Q2804N-B1LN2 |
| IPS-Q2802P-A1LN2 | 3 | IPN-Q2804P-A1LN2 |
| IPS-Q2802P-B1LN2 | 4 | IPN-Q2804P-B1LN2 |
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| | | |
| | | |

| | | |
|------------------|----|------------------|
| IPS-Q2802N-A1VN2 | 1* | IPN-Q2804N-A1VN2 |
| IPS-Q2802N-B1VN2 | 2 | IPN-Q2804N-B1VN2 |
| IPS-Q2802P-A1VN2 | 3 | IPN-Q2804P-A1VN2 |
| IPS-Q2802P-B1VN2 | 4 | IPN-Q2804P-B1VN2 |
| | | |
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| | | |
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| | | |

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 and Page 014.

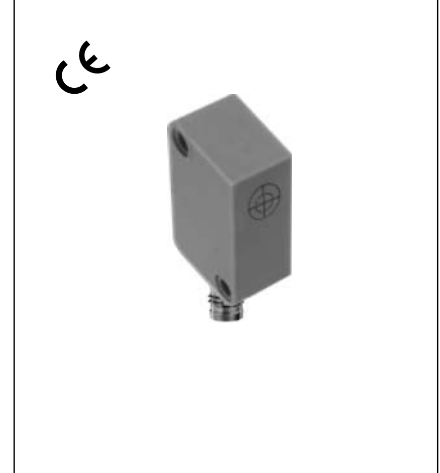
EXTENDED RANGE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

| |
|------------------------------|
| Diameter |
| ● Shielded ○ non-Shielded |
| Switching Distance, Sn: mm |
| Housing Material |
| ● With LED ○ Without LED |

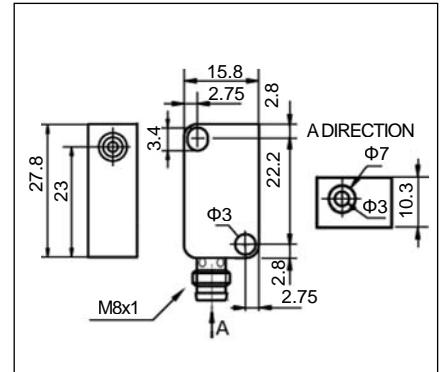
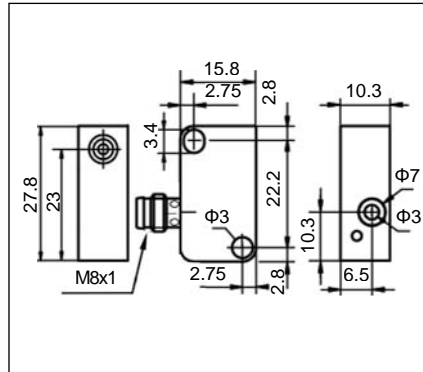
| | |
|-----------|------|
| Q16x28x10 | |
| ● | ○ |
| 2 mm | 4 mm |
| PBT | |
| ● | |

| | |
|-----------|------|
| Q16x28x10 | |
| ● | ○ |
| 2 mm | 4 mm |
| PBT | |
| ● | |

| |
|---------|
| Picture |
|---------|



| |
|-----------------------|
| Dimensions (unit: mm) |
|-----------------------|



| |
|--------------------------|
| Ripple |
| No Load Current |
| Max. Load current |
| Leakage Current |
| Voltage Drop |
| Switching Frequency |
| Response Time |
| Switching Hysteresis |
| Repeat Accuracy |
| Protection Category |
| Operating Temperature |
| Temperature Drift |
| Short Circuit Protection |
| Overload Trip Point |
| Material Active Face |

| |
|----------------------------|
| <10% |
| <10mA |
| 200mA |
| <0.01mA |
| <2.0V |
| 2KHz 1KHz |
| 0.1ms/0.1ms 0.2ms/0.2ms |
| <15%(Sr) |
| <1.0%(Sr) |
| IP67 |
| -25°C - +70°C |
| <10%(Sr) |
| Yes |
| 220mA |
| PBT |

| |
|----------------------------|
| <10% |
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| <0.01mA |
| <2.0V |
| 2KHz 1KHz |
| 0.1ms/0.1ms 0.2ms/0.2ms |
| <15%(Sr) |
| <1.0%(Sr) |
| IP67 |
| -25°C - +70°C |
| <10%(Sr) |
| Yes |
| 220mA |
| PBT |

| |
|-----------------|
| Connecting type |
| Weight |

| |
|--------------|
| M8 connector |
| approx.25 g |

| |
|--------------|
| M8 connector |
| approx.25 g |

| |
|---------------------------|
| DC 3 wire 10-30V NPN N.O. |
| DC 3 wire 10-30V NPN N.C. |
| DC 3 wire 10-30V PNP N.O. |
| DC 3 wire 10-30V PNP N.C. |
| DC 3 wire 10-55V NPN N.O. |
| DC 3 wire 10-55V NPN N.C. |
| DC 3 wire 10-55V PNP N.O. |
| DC 3 wire 10-55V PNP N.C. |
| DC 3 wire 5-36 V NPN N.O. |
| DC 3 wire 5-36 V NPN N.C. |
| DC 3 wire 5-36 V PNP N.O. |
| DC 3 wire 5-36 V PNP N.C. |

| | | |
|------------------|----|------------------|
| IPS-Q2802N-A1XN3 | 1* | IPN-Q2804N-A1XN3 |
| IPS-Q2802N-B1XN3 | 2 | IPN-Q2804N-B1XN3 |
| IPS-Q2802P-A1XN3 | 3 | IPN-Q2804P-A1XN3 |
| IPS-Q2802P-B1XN3 | 4 | IPN-Q2804P-B1XN3 |
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| | | |
|------------------|----|------------------|
| IPS-Q2802N-A1PN3 | 1* | IPN-Q2804N-A1PN3 |
| IPS-Q2802N-B1PN3 | 2 | IPN-Q2804N-B1PN3 |
| IPS-Q2802P-A1PN3 | 3 | IPN-Q2804P-A1PN3 |
| IPS-Q2802P-B1PN3 | 4 | IPN-Q2804P-B1PN3 |
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* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.