

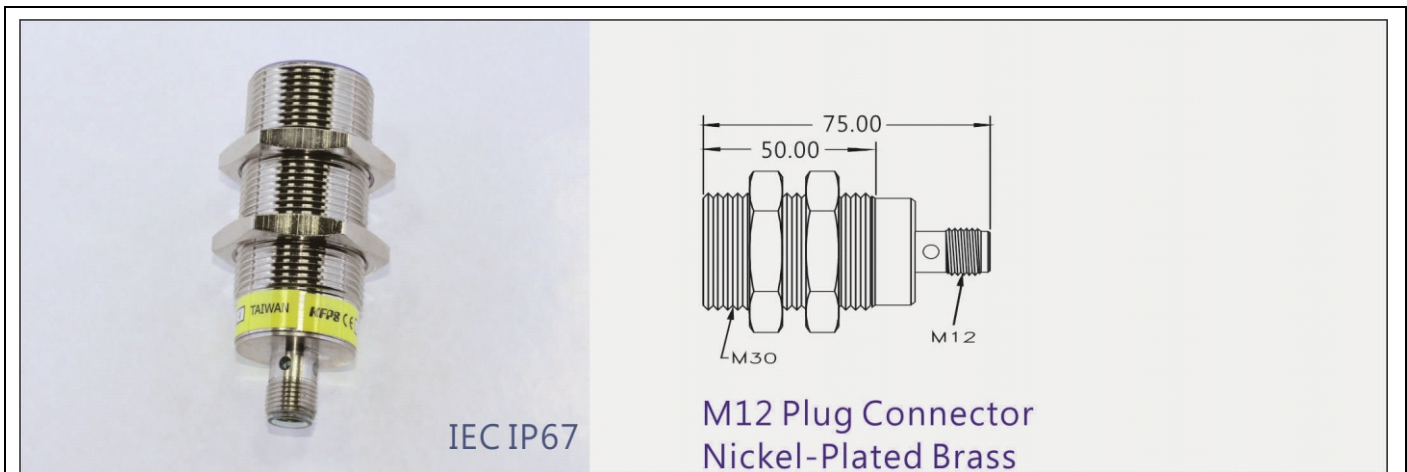
M30 Series

**No-touch operation · high response frequency · wide range application.
 Variety of specification · switching output · dimension and housing material.
 Variable with cable or connector version · customer-specific versions
 available.**

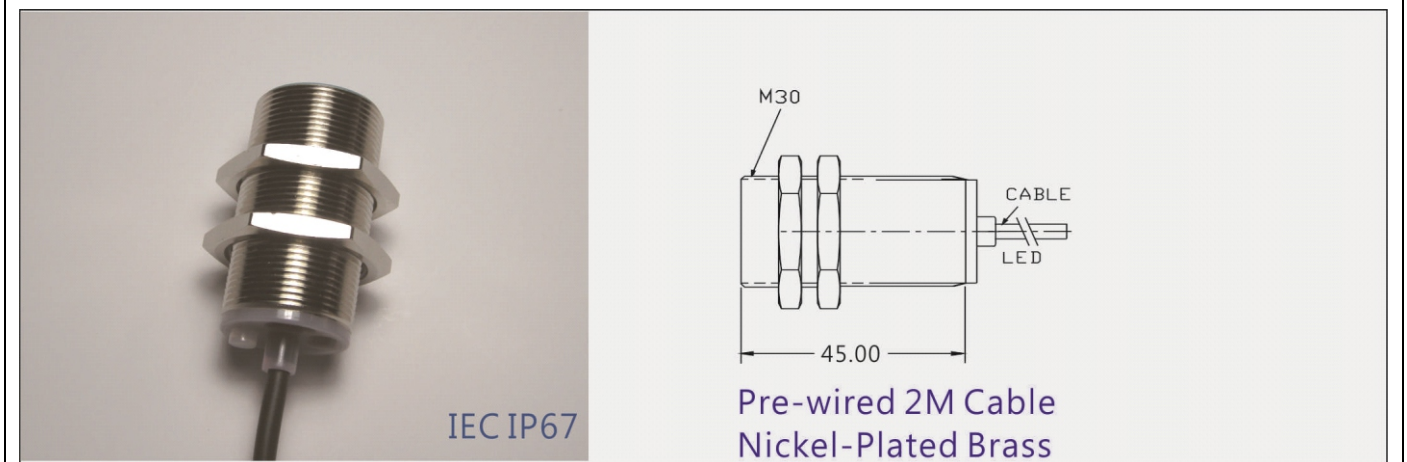
Reverse polarity and Swapped signal wires protection.

Good environmental resistance up to IP67 and IP68.

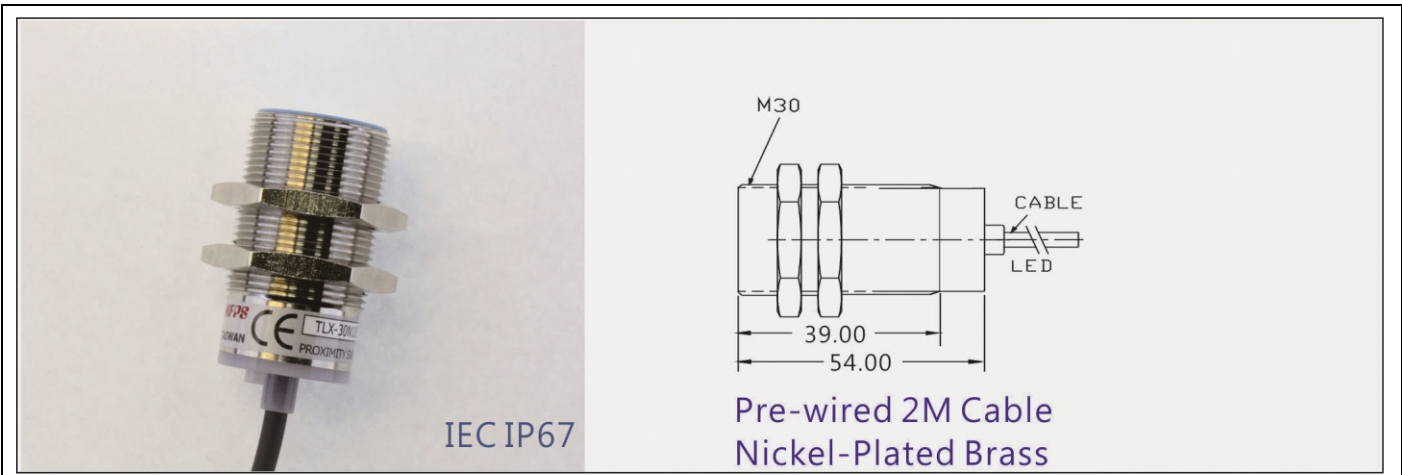
All products are CE approved.



| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|------------------|---------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | TLX-30N10E1-V | DC 10~30V | 400Hz | 10mm |
| DC 3-Wire NPN NC | TLX-30N10E2-V | | | |
| DC 3-Wire PNP NO | TLX-30P10E1-V | | | |
| DC 3-Wire PNP NC | TLX-30P10E2-V | | | |



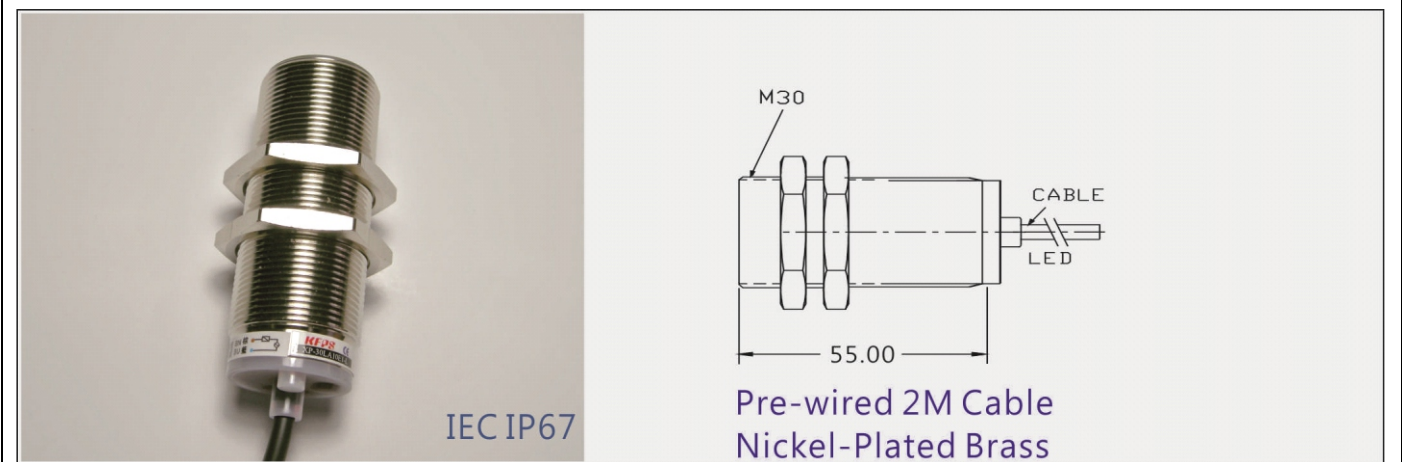
| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | TLX-30GN10E1 | DC 10~30V | 400Hz | 10mm |
| DC 3-Wire NPN NC | TLX-30GN10E2 | | | |
| DC 3-Wire PNP NO | TLX-30GP10E1 | | | |
| DC 3-Wire PNP NC | TLX-30GP10E2 | | | |



IEC IP67

Pre-wired 2M Cable
Nickel-Plated Brass

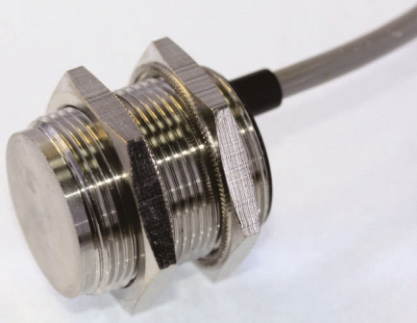
| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|----------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | TLX-30N10E1 | DC 10~30V | 400Hz | 10mm |
| DC 3-Wire NPN NC | TLX-30N10E2 | | | |
| DC 3-Wire PNP NO | TLX-30P10E1 | | | |
| DC 3-Wire PNP NC | TLX-30P10E2 | | | |
| DC 2-Wire NPN/PNP NO | XP-30D10E1 | | | |
| AC 2-Wire SCR NO | XP-30A10E1 | AC 24~240V | 25Hz | |
| AC 2-Wire SCR NC | XP-30A10E2 | | | |



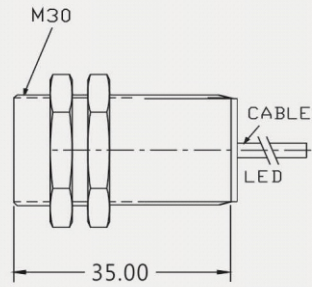
IEC IP67

Pre-wired 2M Cable
Nickel-Plated Brass

| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|----------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | TLX-30LN10E1 | DC 10~30V | 400Hz | 10mm |
| DC 3-Wire NPN NC | TLX-30LN10E2 | | | |
| DC 3-Wire PNP NO | TLX-30LP10E1 | | | |
| DC 3-Wire PNP NC | TLX-30LP10E2 | | | |
| DC 2-Wire NPN/PNP NO | XP-30LD10E1 | | | |
| AC 2-Wire SCR NO | XP-30LA10E1 | AC 24~240V | 25Hz | |
| AC 2-Wire SCR NC | XP-30LA10E2 | | | |



IEC IP67

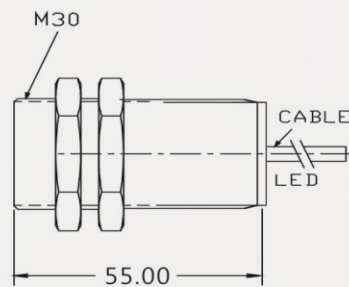


Pre-wired 2M Cable
Stainless Steel

| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | XN-F30GN10E1 | DC 10~30V | 200Hz | 10mm |
| DC 3-Wire NPN NC | XN-F30GN10E2 | | | |
| DC 3-Wire PNP NO | XN-F30GP10E1 | | | |



IEC IP67

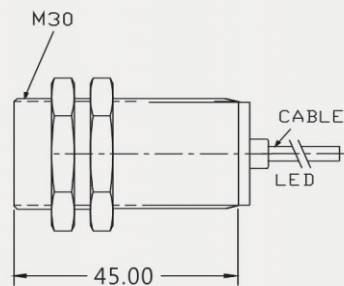


Pre-wired 2M Cable
Nickel-Plated Brass

| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|---------------------|--------------|-------------------|--------------------|------------------|
| DC 4-Wire NPN NO&NC | XL-F30N10E3 | DC 10~30V | 350Hz | 10mm |
| DC 4-Wire PNP NO&NC | XL-F30P10E3 | | | |



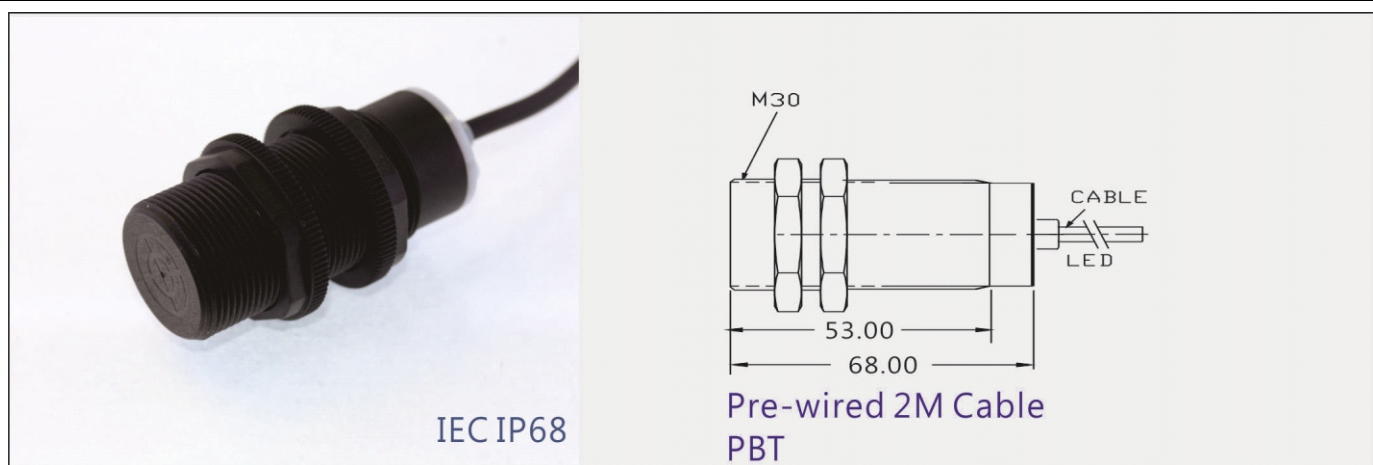
IEC IP68



Pre-wired 2M Cable
PBT

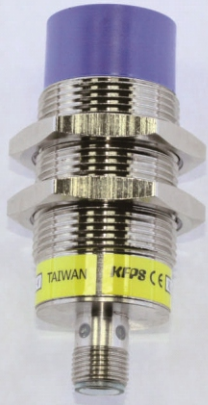
| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|------------------|--------------|-------------------|--------------------|------------------|
| | | | | |

| | | | | |
|------------------|--------------|-----------|-------|------|
| DC 3-Wire NPN NO | ABS-30GN10E1 | DC 10~30V | 400Hz | 10mm |
| DC 3-Wire NPN NC | ABS-30GN10E2 | | | |
| DC 3-Wire PNP NO | ABS-30GP10E1 | | | |
| DC 3-Wire PNP NC | ABS-30GP10E2 | | | |

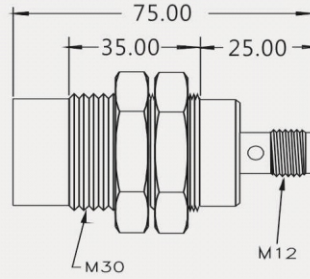


| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|----------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | ABS-30N10E1 | DC 10~30V | 400Hz | 10mm |
| DC 3-Wire NPN NC | ABS-30N10E2 | | | |
| DC 3-Wire PNP NO | ABS-30P10E1 | | | |
| DC 3-Wire PNP NC | ABS-30P10E2 | | | |
| DC 2-Wire NPN/PNP NO | XPB-30D10E1 | AC 24~240V | 25Hz | |
| AC 2-Wire SCR NO | XPB-30A10E1 | | | |
| AC 2-Wire SCR NC | XPB-30A10E2 | | | |

| Item | Specifications |
|--------------------------------------|--|
| Standard sensing object | Iron, 30×30×1 mm |
| Installation | Shielded |
| Load current | DC 3&4 Wire ≤ 200mA、DC 2 Wire ≤ 100mA、AC 2 Wire ≤ 300mA |
| Operation indicator | Red LED |
| Circuits protection | Reversed polarity & Short circuit protection |
| Ambient temperature & humidity range | Operating : -20 ~ 70°C / RH 35 ~85% (with no icing or condensation) |
| Insulation resistance | 50MΩ minimum. (at 500VDC) between current carry parts and case |
| Voltage with stand ability | 1000VAC 50/60Hz for 1 minute between current carry parts and case |



IEC IP67

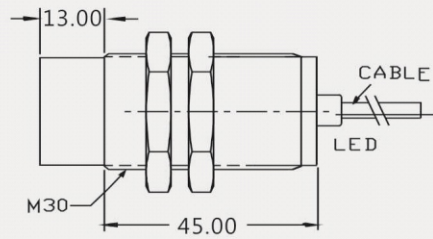


M12 Plug Connector
Nickel-Plated Brass

| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|------------------|---------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | TLX-30N15E1-V | DC 10~30V | 100Hz | 15mm |
| DC 3-Wire NPN NC | TLX-30N15E2-V | | | |
| DC 3-Wire PNP NO | TLX-30P15E1-V | | | |
| DC 3-Wire PNP NC | TLX-30P15E2-V | | | |

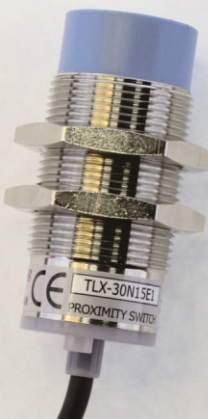


IEC IP67

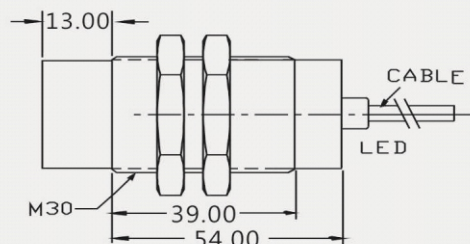


Pre-wired 2M Cable
Nickel-Plated Brass

| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | TLX-30GN15E1 | DC 10~30V | 100Hz | 15mm |
| DC 3-Wire NPN NC | TLX-30GN15E2 | | | |
| DC 3-Wire PNP NO | TLX-30GP15E1 | | | |
| DC 3-Wire PNP NC | TLX-30GP15E2 | | | |

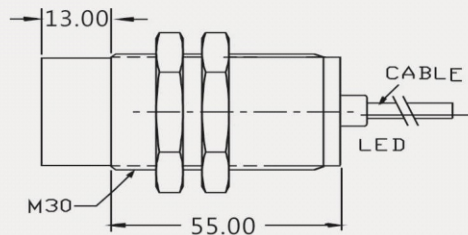


IEC IP67



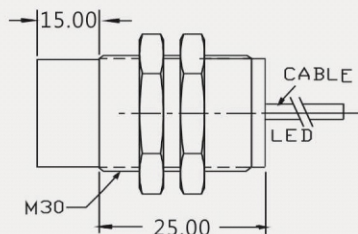
Pre-wired 2M Cable
Nickel-Plated Brass

| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|----------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | TLX-30N15E1 | DC 10~30V | 100Hz | 15mm |
| DC 3-Wire NPN NC | TLX-30N15E2 | | | |
| DC 3-Wire PNP NO | TLX-30P15E1 | | | |
| DC 3-Wire PNP NC | TLX-30P15E2 | | | |
| DC 2-Wire NPN/PNP NO | XP-30D15E1 | | | |
| AC 2-Wire SCR NO | XP-30A15E1 | AC 24~240V | 25Hz | |
| AC 2-Wire SCR NC | XP-30A15E2 | | | |



Pre-wired 2M Cable
Nickel-Plated Brass

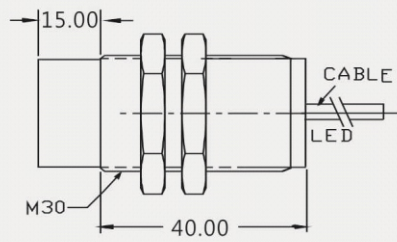
| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|----------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | TLX-30LN15E1 | DC 10~30V | 100Hz | 15mm |
| DC 3-Wire NPN NC | TLX-30LN15E2 | | | |
| DC 3-Wire PNP NO | TLX-30LP15E1 | | | |
| DC 3-Wire PNP NC | TLX-30LP15E2 | | | |
| DC 2-Wire NPN/PNP NO | XP-30LD15E1 | | | |
| AC 2-Wire SCR NO | XP-30LA15E1 | AC 24~240V | 25Hz | |
| AC 2-Wire SCR NC | XP-30LA15E2 | | | |



Pre-wired 2M Cable
Stainless Steel

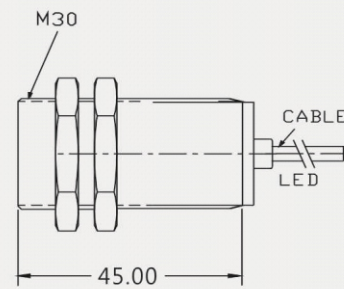
| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | XN-N30GN15E1 | DC 10~30V | 100Hz | 15mm |
| DC 3-Wire NPN NC | XN-N30GN15E2 | | | |

| | | | | |
|------------------|--------------|--|--|--|
| DC 3-Wire PNP NO | XN-N30GP15E1 | | | |
|------------------|--------------|--|--|--|



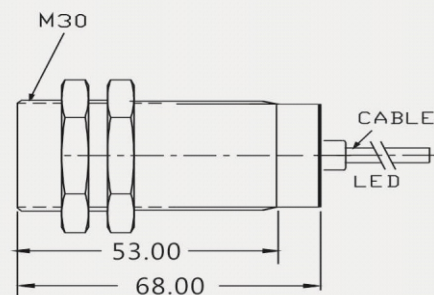
Pre-wired 2M Cable
Nickel-Plated Brass

| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|---------------------|--------------|-------------------|--------------------|------------------|
| DC 4-Wire NPN NO&NC | XL-N30N15E3 | DC 10~30V | 100Hz | 15mm |
| DC 4-Wire PNP NO&NC | XL-N30P15E3 | | | |



Pre-wired 2M Cable
PBT

| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | ABS-30GN15E1 | DC 10~30V | 100Hz | 15mm |
| DC 3-Wire NPN NC | ABS-30GN15E2 | | | |
| DC 3-Wire PNP NO | ABS-30GP15E1 | | | |
| DC 3-Wire PNP NC | ABS-30GP15E2 | | | |



Pre-wired 2M Cable
PBT

| Switching Output | Model Number | Operating Voltage | Response Frequency | Sensing Distance |
|----------------------|--------------|-------------------|--------------------|------------------|
| DC 3-Wire NPN NO | ABS-30N15E1 | DC 10~30V | 100Hz | 15mm |
| DC 3-Wire NPN NC | ABS-30N15E2 | | | |
| DC 3-Wire PNP NO | ABS-30P15E1 | | | |
| DC 3-Wire PNP NC | ABS-30P15E2 | | | |
| DC 2-Wire NPN/PNP NO | XPB-30D15E1 | | | |
| AC 2-Wire SCR NO | XPB-30A15E1 | AC 24~240V | 25Hz | |
| AC 2-Wire SCR NC | XPB-30A15E2 | | | |

| Item | Specifications |
|--------------------------------------|--|
| Standard sensing object | Iron, 30×30×1 mm |
| Installation | Unshielded |
| Load current | DC 3&4 Wire ≤ 200mA · DC 2 Wire ≤ 100mA · AC 2 Wire ≤ 300mA |
| Operation indicator | Red LED |
| Circuits protection | Reversed polarity & Short circuit protection |
| Ambient temperature & humidity range | Operating : -20 ~ 70°C / RH 35 ~85% (with no icing or condensation) |
| Insulation resistance | 50MΩ minimum. (at 500VDC) between current carry parts and case |
| Voltage with stand ability | 1000VAC 50/60Hz for 1 minute between current carry parts and case |

Wiring Diagram :

