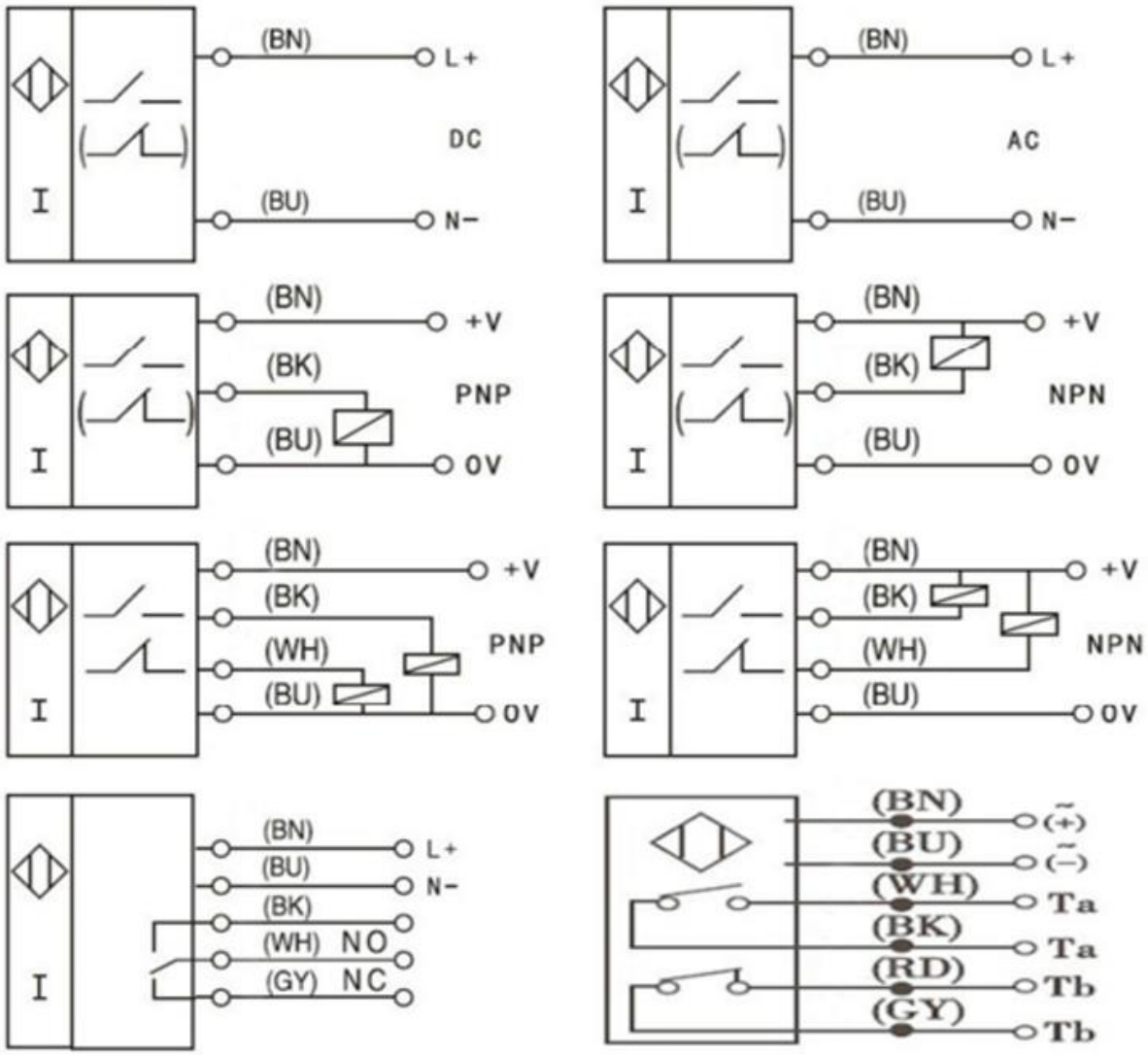
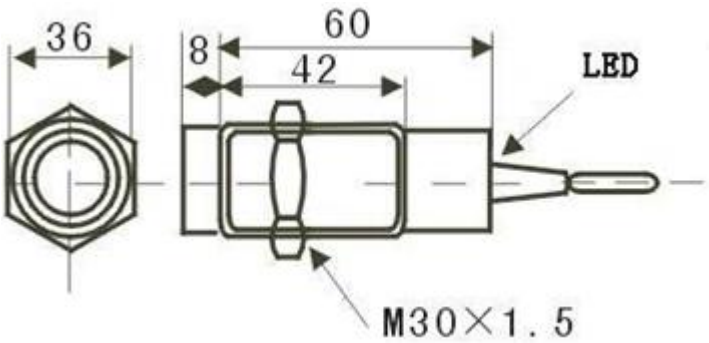
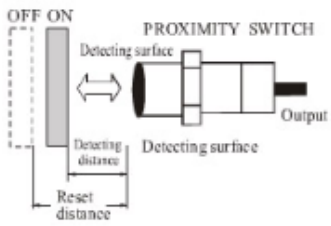
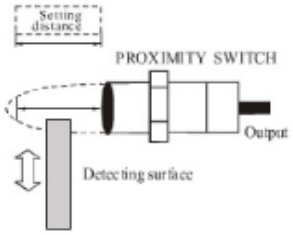
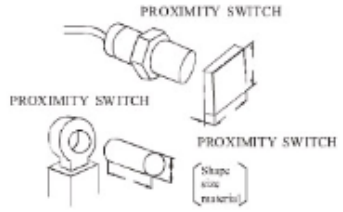
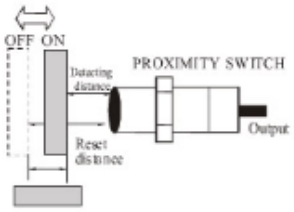
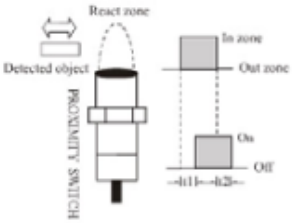
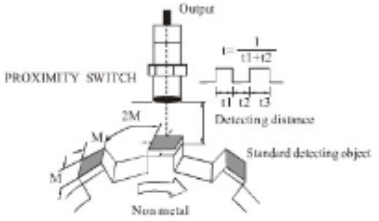
| Product information | | | | |
|---|---|---|---|---|
| **Type** | | | | **LJ30A3-10-□** |
| Mounting way | | | | Screen shield type |
| Type | DC type | NPN | NO | LJ30A3-10-Z/BX |
| | | | NC | LJ30A3-10-Z/AX |
| | | | NO+NC | LJ30A3-10-Z/CX |
| | | PNP | NO | LJ30A3-10-Z/BY |
| | | | NC | LJ30A3-10-Z/AY |
| | | | NO+NC | LJ30A3-10-Z/CY |
| | | Two-wire | NO | LJ30A3-10-Z/EX |
| | | | NC | LJ30A3-10-Z/DX |
| | AC type | Two-wire | NO | LJ30A3-10-J/EZ |
| | | | NC | LJ30A3-10-J/DZ |
| | | Three-wire | NO+NC | LJ30A3-10-J/EDZ |
| Detection distance | | | | 10 mm ± 10% |
| Set distance | | | | 0-8mm |
| Delay distance | | | | 10% below of the detection distance |
| Detection object | | | | Magnetic metal(the detection distance decreases when it is non-magnetic metal) |
| Standard detection object | | | | Iron30*30*1mm |
| Response frequency | | | | DC:0.5kHz AC:25kHz |
| Supply voltage | | | | DC type : DC 12-24V ( 6-36V ) Impulse ( P-P ) 10% below<br>AC type : AC 110-220V ( 36-250V ) 50/60Hz |
| Withstand voltage | | | | AC1000V 50/60HZ 1min between charging part and housing |
| Voltage influence | | | | Inside ±15% rated supply voltage range, at rated supply voltage value, inside ±10% detection distance |
| Consumption current | | | | N.P type:13mA below, D type:0.8mA below,A type:1.7mA below |
| Control output | | | | N.P type:300mA below, D type:200mA below,A type:400mA below |
| Loop protection | | | | N.P.D type:reversal connection protection,surge absorption,load short-circuit protection,A type:surge absorption |
| Ambient temperature & humidity | | | | During operation,storage:individually -30—+65°C<br>( no freeze, no drew),During operation,storage:individually 35—95% RH |
| Temperature influence | | | | Temperature range -30—+65°C,at+23°C, ±15%detection distance<br>Temperature range -25—+60°C,at+23°C, ±10%detection distance |
| Insulation impedance | | | | 50MΩ above(DC500 megameter)between charging part and housing |
| Material | | | | Housing:Nickel plated brass Detection surface:ABS |
| Protection level | | | | IP67( IEC specification) |

## ***Installation:***






| | | |
|---|---|---|
| Detection distance<br>  <br><br>Move the detected object according to assigned method, the distance from the reference position (reference plane)to the detecting action(resetting) | Setting distance<br>  <br><br>Including the effects like temperature and voltage, without error action the distance passed through from the practical detection surface to the objected object. | Standard detected object<br>  <br><br>Take as standard detected object to detect the basic performance. the shape, size and material have been determined. |
| Differential distance<br>  <br><br>The absolute value of the distance difference between the distance to action and the distance To resetting | Response time<br>  <br><br>T1:when the objected object enters the action zone, the time from proximity sensor being in action state to output appearance.<br>T2:the time from leaving action zone to output disappearance. | Response frequency<br>  <br><br>Work out the tracking output times per second by repeatedly approaching the detected object<br>Brief detection method sees the above diagram |