

DC INDUCTIVE PROXIMITY SENSORS

Diameter
● Shielded ○ Non-shielded
Switching Distance Sn: mm
Housing Material
● With LED ○ Without LED

Picture

Operating Voltage
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

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 4 wire 10-30V Changeover PNP (N.O. & N.C.)
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)
DC 2 wire 10-60V N.O. *
DC 2 wire 10-60V 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 5-36V NPN N.O.
DC 3 wire 5-36V NPN N.C.
DC 3 wire 5-36V PNP N.O.
DC 3 wire 5-36V PNP N.C.
DC 4 wire 5-36V Changeover PNP (N.O. & N.C.)
DC 4 wire 5-36V Changeover NPN (N.O. & N.C.)

Dimensions (unit: mm)
* : DC 2wire 10-60V specifications see page 3-05. Other is same.

Cable 2M (PVC)
Weight

φ6.5
● ○
1mm 2mm
Stainless steel
●

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10-30VDC / 5-36VDC / 10-55V / 10-60VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
YES
220mA
POM

P1D1S6.501NO3A2	1	P1D2S6.502NO3A2
P1D1S6.501NC3A2	2	P1D2S6.502NC3A2
P1D1S6.501PO3A2	3	P1D2S6.502PO3A2
P1D1S6.501PC3A2	4	P1D2S6.502PC3A2
P1D1S6.501PS4A2	6	P1D2S6.502PS4A2
P1D1S6.501NS4A2	5	P1D2S6.502NS4A2
P4D1S6.501CO2A2	7	P4D2S6.502CO2A2
P4D1S6.501CC2A2	8	P4D2S6.502CC2A2
P3D1S6.501NO3A2	1	P3D2S6.502NO3A2
P3D1S6.501NC3A2	2	P3D2S6.502NC3A2
P3D1S6.501PO3A2	3	P3D2S6.502PO3A2
P3D1S6.501PC3A2	4	P3D2S6.502PC3A2
P2D1S6.501NO3A2	1	P2D2S6.502NO3A2
P2D1S6.501NC3A2	2	P2D2S6.502NC3A2
P2D1S6.501PO3A2	3	P2D2S6.502PO3A2
P2D1S6.501PC3A2	4	P2D2S6.502PC3A2
P2D1S6.501PS4A2	6	P2D2S6.502PS4A2
P2D1S6.501NS4A2	5	P2D2S6.502NS4A2

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3φ 3x0.15 or 3φ 4x0.15
Approx.36 g

φ6.5
● ○
1mm 2mm
Stainless steel
●

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10-30VDC / 5-36VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
YES
220mA
POM

P1D1S6.501NO3S2	1	P1D2S6.502NO3S2
P1D1S6.501NC3S2	2	P1D2S6.502NC3S2
P1D1S6.501PO3S2	3	P1D2S6.502PO3S2
P1D1S6.501PC3S2	4	P1D2S6.502PC3S2
P2D1S6.501NO3S2	1	P2D2S6.502NO3S2
P2D1S6.501NC3S2	2	P2D2S6.502NC3S2
P2D1S6.501PO3S2	3	P2D2S6.502PO3S2
P2D1S6.501PC3S2	4	P2D2S6.502PC3S2

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3 φ3x0.15
Approx.40 g

DC INDUCTIVE PROXIMITY SENSORS

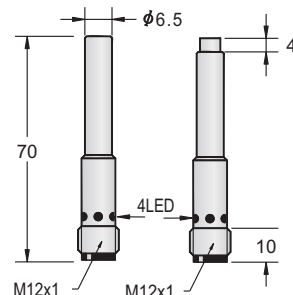
Ø 6.5	
●	○
1mm	2mm
Stainless steel	
●	



CE

10-30VDC / 5-36VDC /10-55V/ 10-60VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25℃ - +70℃
<10%(Sr)
YES
220mA
POM

P1D1S6.501NOEA4	31	P1D2S6.502NOEA4
P1D1S6.501NCEA4	32	P1D2S6.502NCEA4
P1D1S6.501POEA4	33	P1D2S6.502POEA4
P1D1S6.501PCEA4	34	P1D2S6.502PCEA4
P1D1S6.501PSEA4	36	P1D2S6.502PSEA4
P1D1S6.501NSEA4	35	P1D2S6.502NSEA4
P4D1S6.501COEA4	37	P4D2S6.502COEA4
P4D1S6.501CCEA4	38	P4D2S6.502CCEA4
P3D1S6.501NOEA4	31	P3D2S6.502NOEA4
P3D1S6.501NCEA4	32	P3D2S6.502NCEA4
P3D1S6.501POEA4	33	P3D2S6.502POEA4
P3D1S6.501PCEA4	34	P3D2S6.502PCEA4
P2D1S6.501NOEA4	31	P2D2S6.502NOEA4
P2D1S6.501NCEA4	32	P2D2S6.502NCEA4
P2D1S6.501POEA4	33	P2D2S6.502POEA4
P2D1S6.501PCEA4	34	P2D2S6.502PCEA4
P2D1S6.501PSEA4	36	P2D2S6.502PSEA4
P2D1S6.501NSEA4	35	P2D2S6.502NSEA4



approx.25 g

DC INDUCTIVE PROXIMITY SENSORS

Diameter
☒ Shielded ☐ Non-shielded
Switching Distance Sn: mm
Housing Material
☒ With LED ☐ Without LED

Picture

Operating Voltage
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

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 4 wire 10-30V Changeover PNP (N.O. & N.C.)
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)
DC 2 wire 10-60V N.O.
DC 2 wire 10-60V 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 5-36V NPN N.O.
DC 3 wire 5-36V NPN N.C.
DC 3 wire 5-36V PNP N.O.
DC 3 wire 5-36V PNP N.C.
DC 4 wire 5-36V Changeover PNP (N.O. & N.C.)
DC 4 wire 5-36V Changeover NPN (N.O. & N.C.)

Dimensions (unit: mm)

Cable 2M (PVC)
Weight

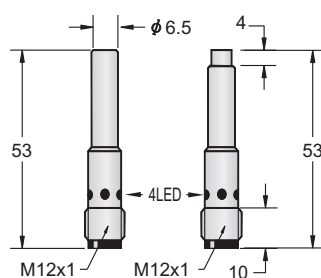
ø 6.5	
	
1 mm	2 mm
Stainless steel	
	



CE

10-30VDC / 5-36VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)
YES
220mA
POM

P1D1S6.501NOES4	31	P1D2S6.502NOES4
P1D1S6.501NCES4	32	P1D2S6.502NCES4
P1D1S6.501POES4	33	P1D2S6.502POES4
P1D1S6.501PCES4	34	P1D2S6.502PCES4
P2D1S6.501NOES4	31	P2D2S6.502NOES4
P2D1S6.501NCES4	32	P2D2S6.502NCES4
P2D1S6.501POES4	33	P2D2S6.502POES4
P2D1S6.501PCES4	34	P2D2S6.502PCES4



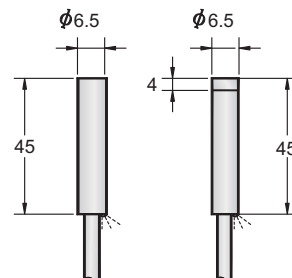
Approx.20 g

ø 6.5	
●	○
2mm	4mm
Stainless steel or Nickel plated brass	
●	



CE

10-30VDC	
<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	
POM	

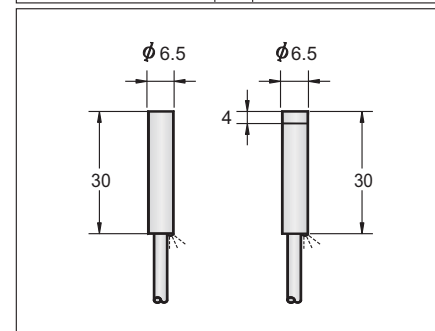
[illegible]

3φ 3x0.15
Approx.36 g

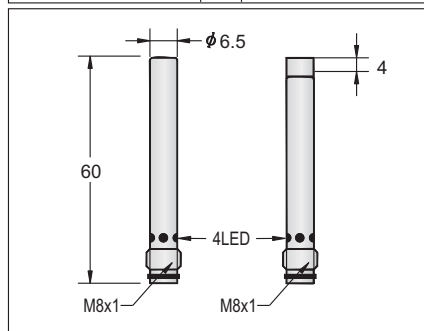
DC INDUCTIVE PROXIMITY SENSORS



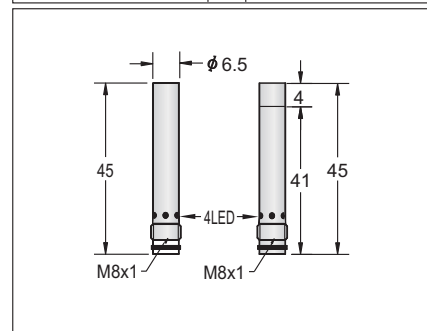
Two views of a cable with a braided shield. The left view shows the cable with a braided shield and a central conductor. The right view shows the cable with a braided shield and a central conductor. A CE mark is visible in the bottom right corner.

[illegible]

3 ϕ 3x0.15
Approx.33 g

[illegible]

Approx.17 g	Approx.16 g
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[illegible]

Approx.15 g	Approx.14 g
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DC INDUCTIVE PROXIMITY SENSORS

Picture

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 4 wire 10-30V Changeover PNP (N.O. & N.C.)
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)
DC 2 wire 10-60V N.O.
DC 2 wire 10-60V 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 5-36V NPN N.O.
DC 3 wire 5-36V NPN N.C.
DC 3 wire 5-36V PNP N.O.
DC 3 wire 5-36V PNP N.C.
DC 4 wire 5-36V Changeover PNP (N.O & N.C.)
DC 4 wire 5-36V Changeover NPN (N.O & N.C.)

Dimensions (unit: mm)

Cable 2M (PVC)
Weight

[illegible]

Technical drawing of the LED module showing dimensions:

- Total height: 70
- Mounting hole diameter: $\varnothing 6.5$
- Mounting hole offset: 4
- LED array height: 10
- Mounting hole diameter: $\varnothing 6.5$

	approx. 25 g



Two views of a stainless steel pin are shown. The left view is a side profile, showing a cylindrical pin with a hexagonal section in the middle. The right view is an end view, showing the hexagonal section and the circular end face.

[illegible]

	Approx. 20 g

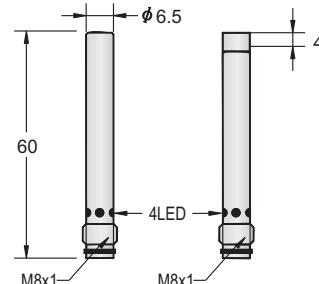
DC INDUCTIVE PROXIMITY SENSORS

Ø 6.5	
	
3mm	6mm
Nickel plated brass	
	



CE

10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
<2.0V	
1KHZ	500HZ
0.2ms/0.2ms	0.5ms/0.5ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
PQM	

[illegible]

Approx. 16 g

DC INDUCTIVE PROXIMITY SENSORS

Diameter

☒ Shielded ☐ Non-shielded
Switching Distance Sn: mm
Housing Material
☒ With LED ☐ Without LED

Picture

Operating Voltage
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

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 4 wire 10-30V Changeover PNP (N.O. & N.C.)
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)
DC 2 wire 10-60V N.O. *
DC 2 wire 10-60V 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 5-36V NPN N.O.
DC 3 wire 5-36V NPN N.C.
DC 3 wire 5-36V PNP N.O.
DC 3 wire 5-36V PNP N.C.
DC 4 wire 5-36V Changeover PNP (N.O & N.C.)
DC 4 wire 5-36V Changeover NPN (N.O & N.C.)

Dimensions (unit: mm)

* : DC 2wire 10-60V specifications
see page 3-05. Other is same.

Cable 2M (PVC)
Weight

Ø 6.5

●	○
3mm	6mm
Nickel plated brass	
●	



10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
<2.0V	
1KHZ	500HZ
0.2ms/0.2ms	0.5ms/0.5ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
POM	

[illegible]

Technical drawing of the LED module showing two views. The left view shows a side profile with a total height of 45 mm and a mounting hole of M8x1. The right view shows a front profile with a total height of 45 mm, a mounting hole of M8x1, and a 4LED array. The diameter of the module is indicated as 6.5 mm.

Approx. 15 g	Approx. 14 g

Ø 6.5

	
3mm	6mm
Nickel plated brass	
	

[illegible]

10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
<2.0V	
1KHZ	500HZ
0.2ms/0.2ms	0.5ms/0.5ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25°C - +70°C	
<10%(Sr)	
YES	
220mA	
POM	

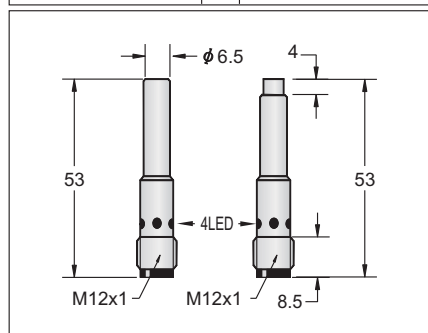
[illegible]

Technical drawing of the LED light fixture showing front and side views with dimensions:

- Overall height: 70
- Top section diameter: $\phi 6.5$
- Top section height: 4
- LED section height: 4LED
- Base section height: 8.5
- Base thread: M12x1

	approx.25 g

DC INDUCTIVE PROXIMITY SENSORS

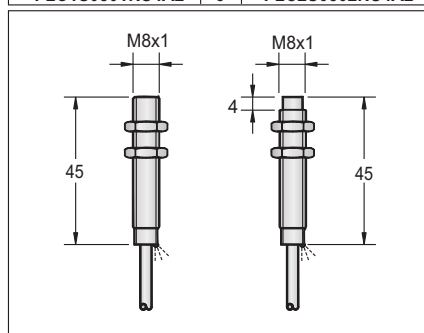
[illegible]

Approx.20 g



Two views of a cable connector are shown. The left view is a side profile, showing a cylindrical metal body with a hexagonal nut-like section and a threaded end. The right view is a front view, showing the same connector from the end, highlighting the central pin and the surrounding metal housing. Both views show a cable extending from the connector.

P1C1S0801N03A2	1	P1C2S0802N03A2
P1C1S0801NC3A2	2	P1C2S0802NC3A2
P1C1S0801P03A2	3	P1C2S0802P03A2
P1C1S0801PC3A2	4	P1C2S0802PC3A2
P1C1S0801PS4A2	6	P1C2S0802PS4A2
P1C1S0801NS4A2	5	P1C2S0802NS4A2
P4C1S0801C02A2	7	P4C2S0802C02A2
P4C1S0801CC2A2	8	P4C2S0802CC2A2
P3C1S0801N03A2	1	P3C2S0802N03A2
P3C1S0801NC3A2	2	P3C2S0802NC3A2
P3C1S0801P03A2	3	P3C2S0802P03A2
P3C1S0801PC3A2	4	P3C2S0802PC3A2
P2C1S0801N03A2	1	P2C2S0802N03A2
P2C1S0801NC3A2	2	P2C2S0802NC3A2
P2C1S0801P03A2	3	P2C2S0802P03A2
P2C1S0801PC3A2	4	P2C2S0802PC3A2
P2C1S0801PS4A2	6	P2C2S0802PS4A2
P2C1S0801NS4A2	5	P2C2S0802NS4A2

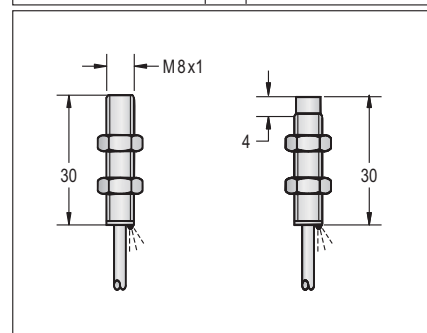


3 ϕ 3x0.15 or 3 ϕ 4x0.15
Approx.40 g



Two views of the cable connector are shown. The left view is a side profile, and the right view is a front-facing view. Both views show the cable jacket, the braided shield, and the outer insulation of the signal conductors.

P1C1S0801N03S2	1	P1C2S0802N03S2
P1C1S0801NC3S2	2	P1C2S0802NC3S2
P1C1S0801P03S2	3	P1C2S0802P03S2
P1C1S0801PC3S2	4	P1C2S0802PC3S2
P2C1S0801N03S2	1	P2C2S0802N03S2
P2C1S0801NC3S2	2	P2C2S0802NC3S2
P2C1S0801P03S2	3	P2C2S0802P03S2
P2C1S0801PC3S2	4	P2C2S0802PC3S2



3 ϕ 3x0.15
Approx.47 g