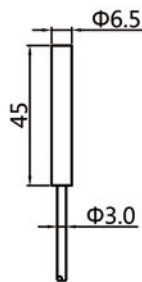


Features :

- Ø6.5 mm, Stainless steel housing;
- 1mm, flush mousing;
- DC 3-wire, switching output;
- Cable & connector versions



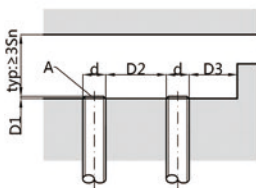
Dimensioned drawing



Model No.

Sensing range	Sn: 1 mm
NPN N. O.	CB-H6. 501N-V11P2
NPN N. C.	CB-H6. 501N-V21P2
PNP N. O.	CB-H6. 501P-V11P2
PNP N. C.	CB-H6. 501P-V21P2

Mounting



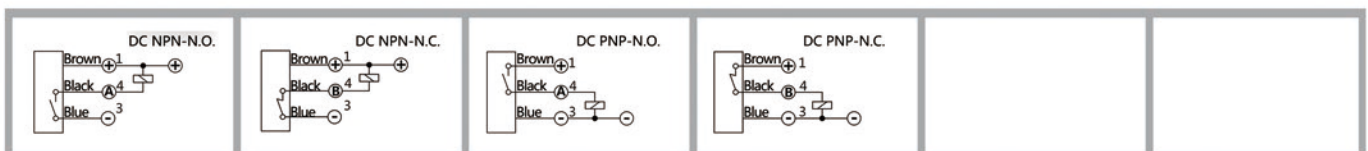
d : diameter  
D1: 1mm  
D2: ≥d  
D3: ≥d  
A: active surface

Tightening torque of the fastening screws: <1.8Nm!

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Stainless steel
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.18mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

Wiring

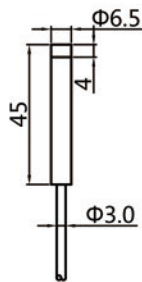


Features :

- Ø6.5 mm, Stainless steel housing;
- 2mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



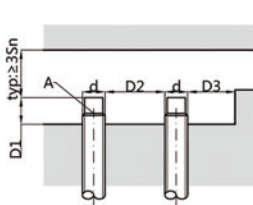
Dimensioned drawing



Model No.

Sensing range	Sn: 2 mm
NPN N. O.	CN-H6. 502N-V11P2
NPN N. C.	CN-H6. 502N-V21P2
PNP N. O.	CN-H6. 502P-V11P2
PNP N. C.	CN-H6. 502P-V21P2

Mounting



d : diameter  
D2 : ≥2d  
D3 : ≥2Sn

A: active surface

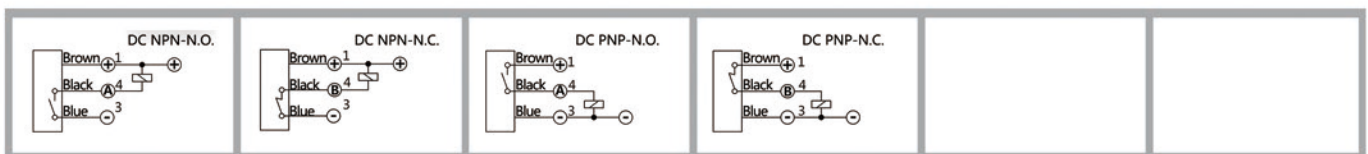
Tightening torque of the fastening screws: <1.8Nm!

Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Stainless steel
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.18mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

Wiring

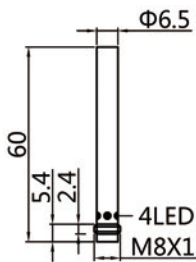


Features :

- Ø6.5 mm, Stainless steel housing;
- 1mm, flush mountable;
- DC 3-wire, switching output
- Cable & connector versions



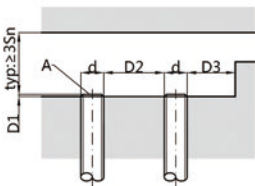
Dimensioned drawing



Model No.

Sensing range	Sn: 1 mm
NPN N. O.	CB-H6. 501N-V11S8
NPN N. C.	CB-H6. 501N-V21S8
PNP N. O.	CB-H6. 501P-V11S8
PNP N. C.	CB-H6. 501P-V21S8

Mounting



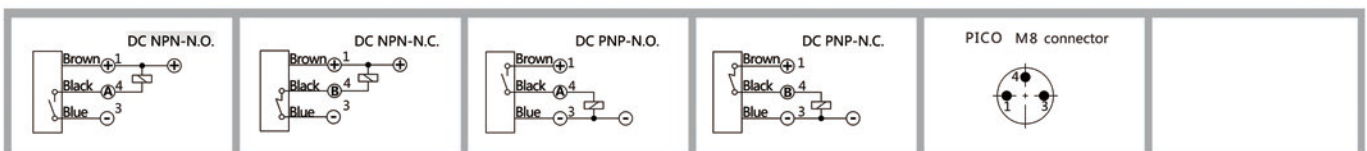
d : diameter  
D1 : 1mm  
D2 : ≥d  
D3 : ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Stainless steel
	Face material	PBT
<b>Electrical connection</b>	Connectors	M8 connector
<b>Accessories</b>	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring

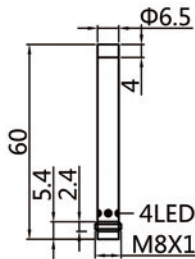


Features :

- Ø6.5 mm, Stainless steel housing;
- 2mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



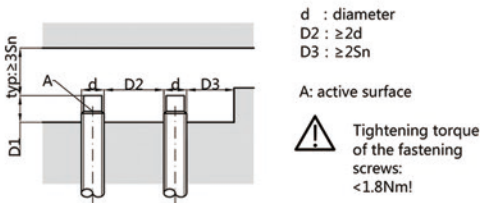
Dimensioned drawing



Model No.

Sensing range	Sn: 2 mm
NPN N. O.	CN-H6. 502N-V11S8
NPN N. C.	CN-H6. 502N-V21S8
PNP N. O.	CN-H6. 502P-V11S8
PNP N. C.	CN-H6. 502P-V21S8

Mounting

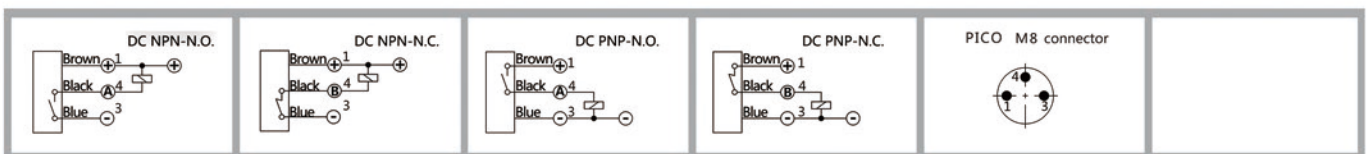


Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Stainless steel
	Face material	PBT
<b>Electrical connection</b>	Connectors	M8 connector
<b>Accessories</b>	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring

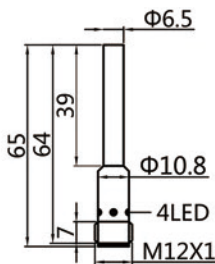


Features :

- Ø6.5 mm, Nickel-plated brass housing;
- 1mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



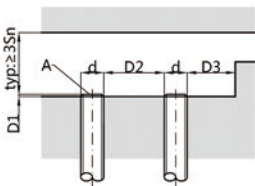
Dimensioned drawing



Model No.

Sensing range	Sn: 1 mm
NPN N. O.	CB-H6. 501N-C11S12
NPN N. C.	CB-H6. 501N-C21S12
PNP N. O.	CB-H6. 501P-C11S12
PNP N. C.	CB-H6. 501P-C21S12

Mounting



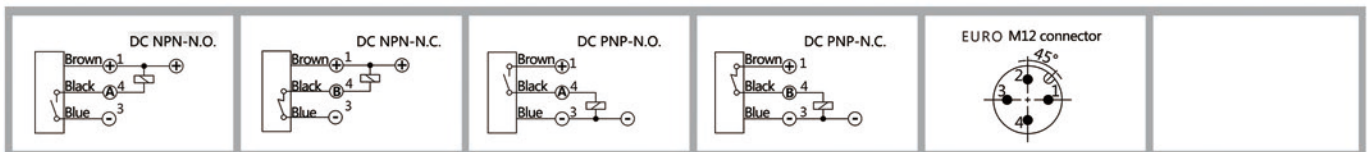
d : diameter  
D1 : 1mm  
D2 : ≥d  
D3 : ≥d  
A: active surface

⚠ Tightening torque  
of the fastening  
screws:  
<1.8Nm!

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

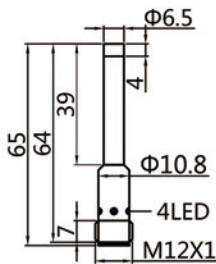


Features :

- Ø6.5 mm, Stainless steel housing;
- 2mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



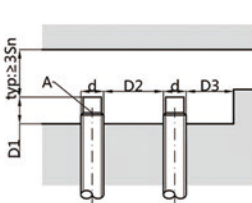
Dimensioned drawing



Model No.

Sensing range	Sn: 2 mm
NPN N. O.	CN-H6. 502N-C11S12
NPN N. C.	CN-H6. 502N-C21S12
PNP N. O.	CN-H6. 502P-C11S12
PNP N. C.	CN-H6. 502P-C21S12

Mounting



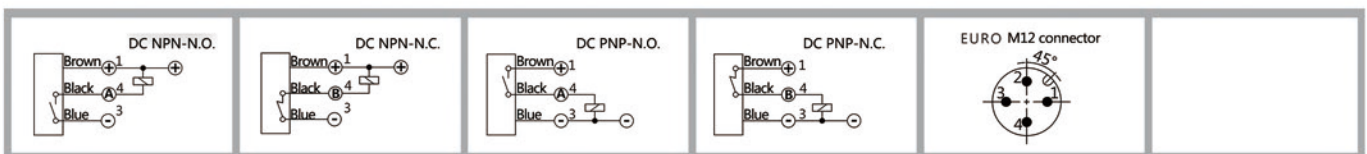
d : diameter  
D2 : ≥2d  
D3 : ≥2Sn  
A: active surface  
 Tightening torque of the fastening screws: <1.8Nm!

Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

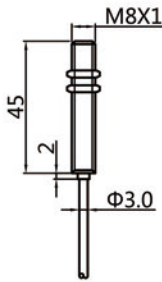


Features :

- M8\*1mm, Nickel-plated brass housing;
- 1mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



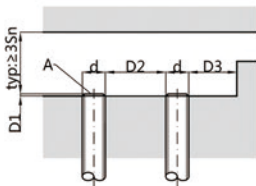
Dimensioned drawing



Model No.

Sensing range	Sn: 1 mm
NPN N. O.	CB-M801N-C11P2
NPN N. C.	CB-M801N-C21P2
PNP N. O.	CB-M801P-C11P2
PNP N. C.	CB-M801P-C21P2

Mounting



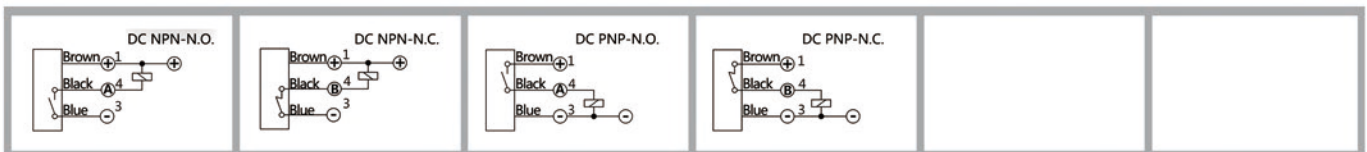
d : diameter  
D1: 1mm  
D2: ≥d  
D3: ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.18mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

Wiring

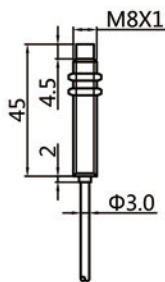


Features :

- M8\*1mm, Nickel-plated brass housing;
- 2mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



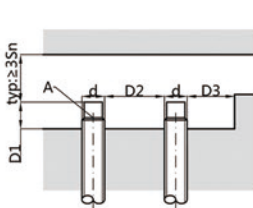
Dimensioned drawing



Model No.

Sensing range	Sn: 2 mm
NPN N. O.	CN-M802N-C11P2
NPN N. C.	CN-M802N-C21P2
PNP N. O.	CN-M802P-C11P2
PNP N. C.	CN-M802P-C21P2

Mounting



d : diameter  
D2 : ≥2d  
D3 : ≥2Sn

A: active surface

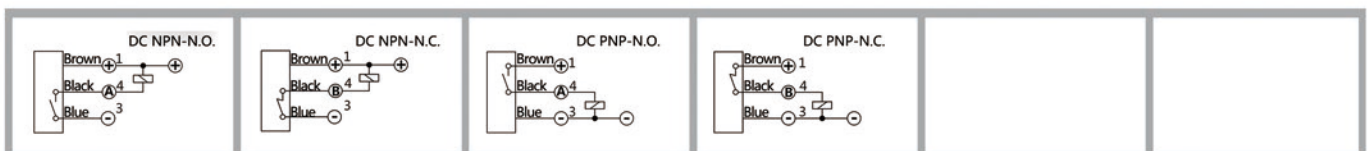
⚠ Tightening torque of the fastening screws: <1.8Nm!

Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.18mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

Wiring



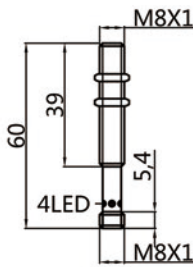


Features :

- M8\*1mm, Nickel-plated brass housing;
- 1mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



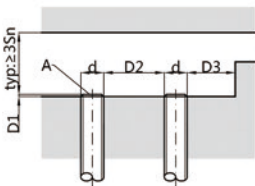
Dimensioned drawing



Mode No.

Sensing range	Sn: 1 mm
NPN N. O.	CB-M801N-C11S8
NPN N. C.	CB-M801N-C21S8
PNP N. O.	CB-M801P-C11S8
PNP N. C.	CB-M801P-C21S8

Mounting



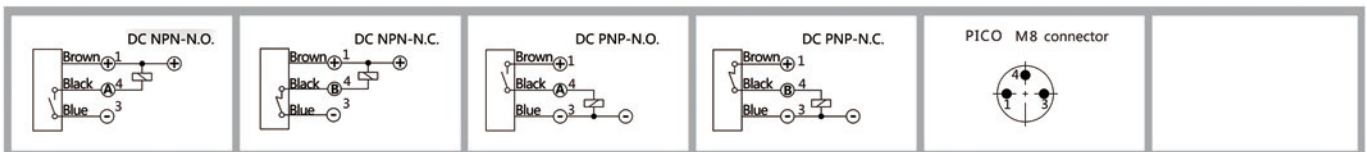
d : diameter  
D1 : 1mm  
D2 : ≥d  
D3 : ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Nickel-plated brass housing
	Face material	PBT
<b>Electrical connection</b>	Connectors	M8 connector
<b>Accessories</b>	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring

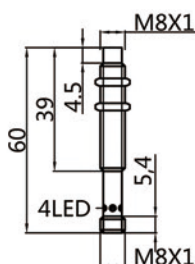


#### Features :

- M8\*1mm, Nickel-plated brass housing;
- 2mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



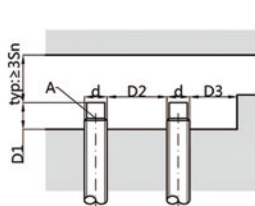
#### Dimensioned drawing



#### Model No.

Sensing range	Sn: 2 mm
NPN N. O.	CN-M802N-C11S8
NPN N. C.	CN-M802N-C21S8
PNP N. O.	CN-M802P-C11S8
PNP N. C.	CN-M802P-C21S8

#### Mounting



d : diameter  
D2 :  $\geq 2d$   
D3 :  $\geq 2Sn$

A: active surface

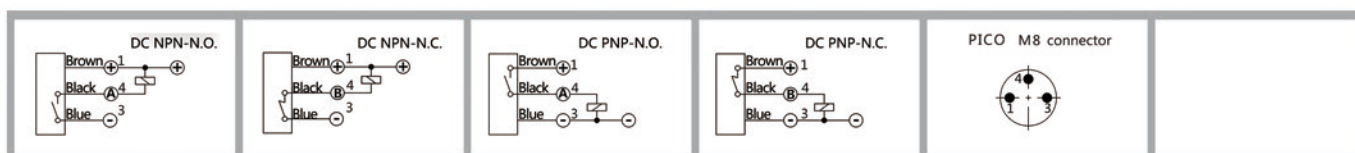
Tightening torque of the fastening screws:  $< 1.8\text{Nm!}$

Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

#### Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	$< 2\text{VDC}$
	Load current	100mA
	No load current	$< 10\text{mA}$ (24 V)
	Hysteresis	$< 15\%(Sr)$
	Repeatability	$< 5\%(Sr)$
<b>Environment</b>	Ambient temperature	$-25...70^{\circ}\text{C}$
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated
	Face material	PBT
<b>Electrical connection</b>	Connectors	M8 connector
<b>Accessories</b>	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

#### Wiring

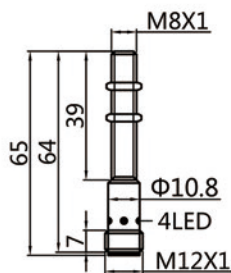


Features :

- M8\*1mm, Nickel-plated brass housing;
- 1mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



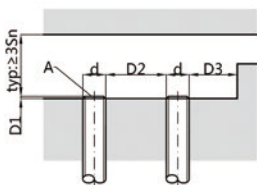
Dimensioned drawing



Model No.

Sensing range	Sn: 1 mm
NPN N. O.	CB-M801N-C11S12
NPN N. C.	CB-M801N-C21S12
PNP N. O.	CB-M801P-C11S12
PNP N. C.	CB-M801P-C21S12

Mounting



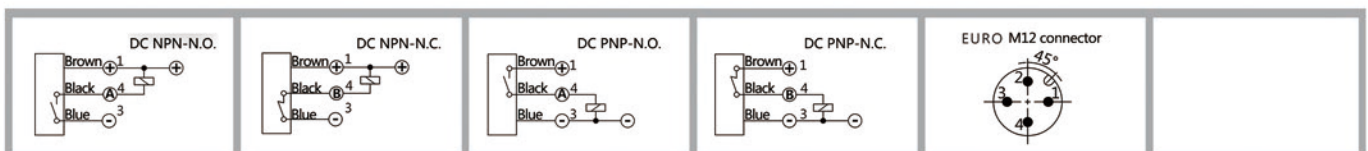
d : diameter  
D1: 1mm  
D2: ≥d  
D3: ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

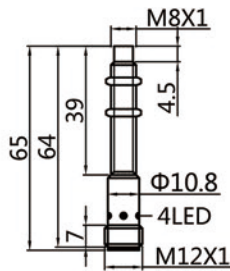


Features :

- M8\*1mm, Nickel-plated brass housing;
- 2mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



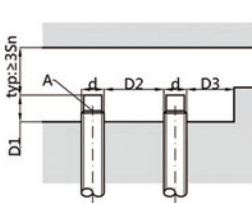
Dimensioned drawing



Model No.

Sensing range	Sn: 2 mm
NPN N. O.	CN-M802N-C11S12
NPN N. C.	CN-M802N-C21S12
PNP N. O.	CN-M802P-C11S12
PNP N. C.	CN-M802P-C21S12

Mounting



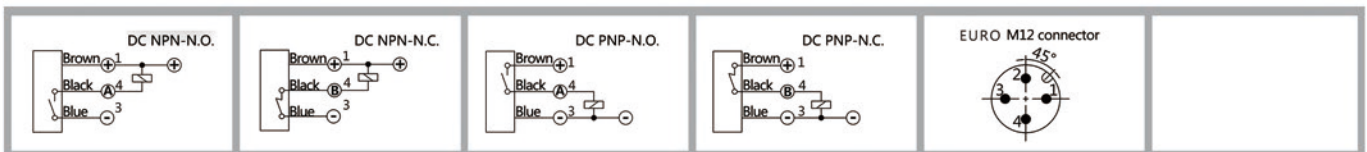
d : diameter  
D2 : ≥2d  
D3 : ≥2Sn  
A: active surface  
 Tightening torque of the fastening screws: <1.8Nm!

Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	100mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

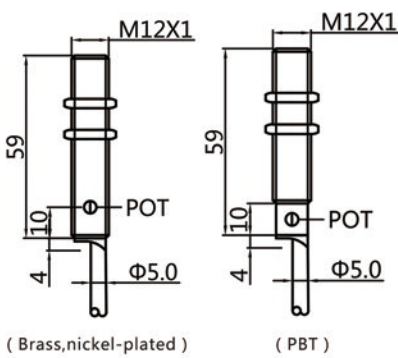


Features :

- M12\*1mm, Plastic/Nickel-plated brass housing;
- 3mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



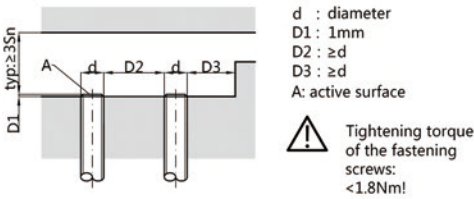
Dimensioned drawing



Model No.

Sensing range	Brass, nickel-plated	PBT
NPN N. O.	CB-M1203N-C11P2	CB-M1203N-P11P2
NPN N. C.	CB-M1203N-C21P2	CB-M1203N-P21P2
PNP N. O.	CB-M1203P-C11P2	CB-M1203P-P11P2
PNP N. C.	CB-M1203P-C21P2	CB-M1203P-P21P2

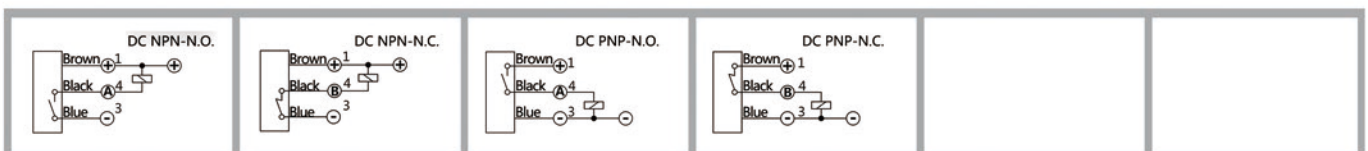
Mounting



Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated/ PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

Wiring

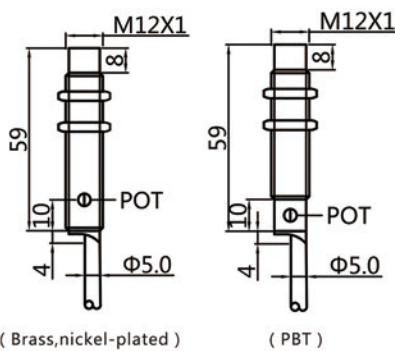


#### Features :

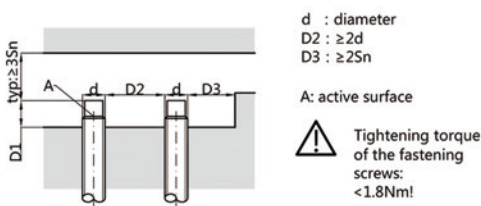
- M12\*1mm, Plastic/Nickel-plated brass housing;
- 6mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



#### Dimensioned drawing



#### Mounting



Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

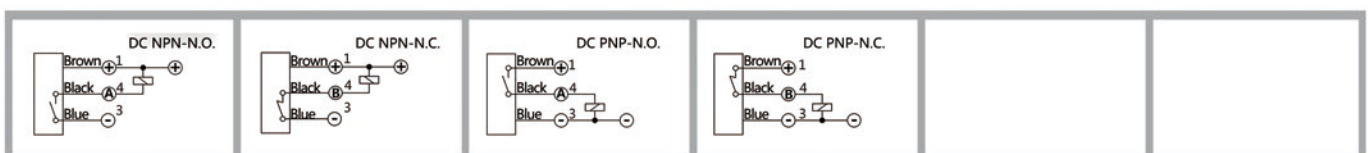
#### Model No.

Sensing range	Brass,nickel-plated	PBT
NPN N. O.	CN-M1206N-C11P2	CN-M1206N-P11P2
NPN N. C.	CN-M1206N-C21P2	CN-M1206N-P21P2
PNP N. O.	CN-M1206P-C11P2	CN-M1206P-P11P2
PNP N. C.	CN-M1206P-C21P2	CN-M1206P-P21P2

#### Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

#### Wiring

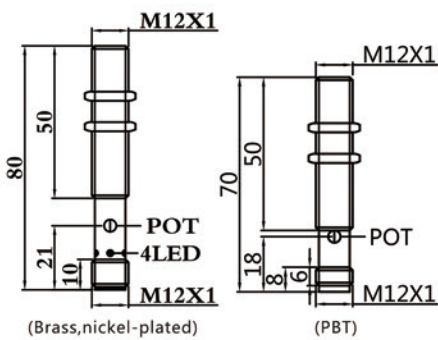


Features :

- M12\*1mm, Plastic/Nickel-plated brass housing;
- 3mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



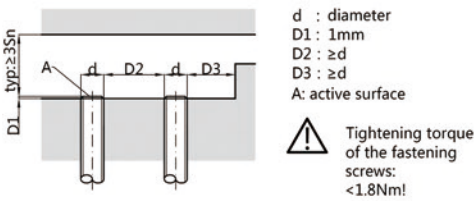
Dimensioned drawing



Model No.

Sensing range	Brass, nickel-plated	PBT
NPN N. O.	CB-M1203N-C11S12	CB-M1203N-P11S12
NPN N. C.	CB-M1203N-C21S12	CB-M1203N-P21S12
PNP N. O.	CB-M1203P-C11S12	CB-M1203P-P11S12
PNP N. C.	CB-M1203P-C21S12	CB-M1203P-P21S12

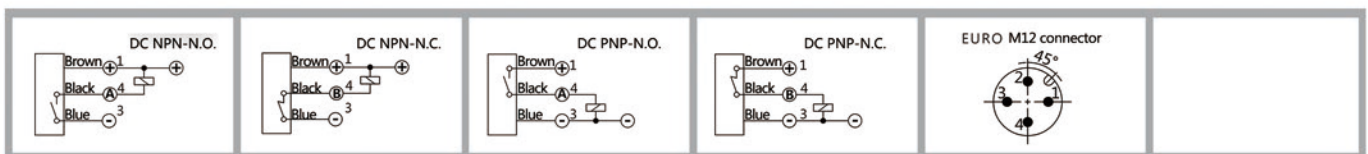
Mounting



Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

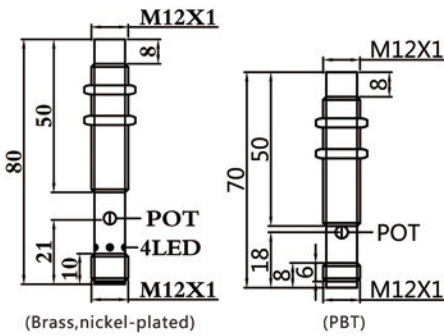


Features :

- M12\*1mm, Plastic/Nickel-plated brass housing;
- 6mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



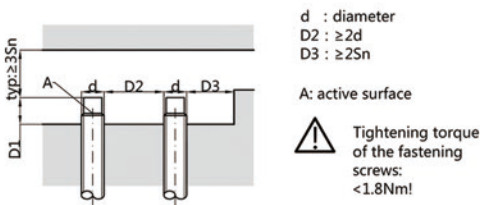
Dimensioned drawing



Model No.

Sensing range	Brass, nickel-plated	PBT
NPN N. O.	CN-M1206N-C11S12	CN-M1206N-P11S12
NPN N. C.	CN-M1206N-C21S12	CN-M1206N-P21S12
PNP N. O.	CN-M1206P-C11S12	CN-M1206P-P11S12
PNP N. C.	CN-M1206P-C21S12	CN-M1206P-P21S12

Mounting

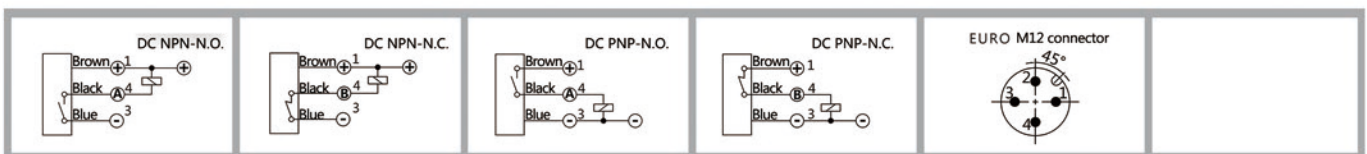


Installed in the metal	
size D1	D1 (mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring





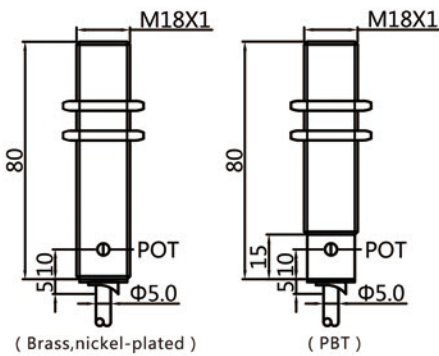


**Features :**

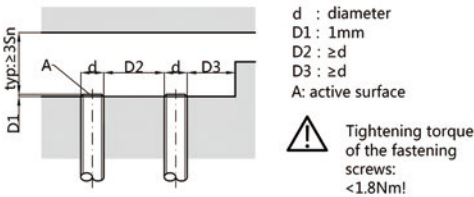
- M18\*1mm, Plastic/Nickel-plated brass housing;
- 8mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



**Dimensioned drawing**



**Mounting**



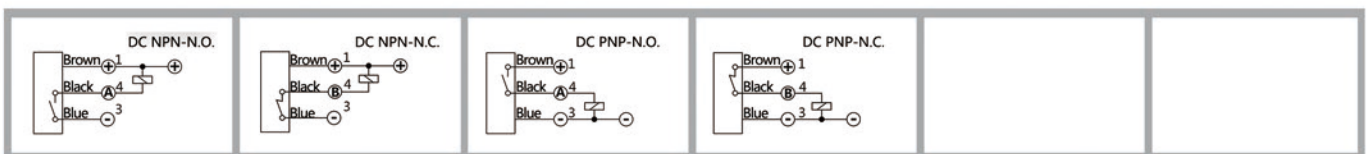
**Model No.**

Sensing range	Brass,nickel-plated	PBT
NPN N. O.	CB-M1808N-C11P2	CB-M1808N-P11P2
NPN N. C.	CB-M1808N-C21P2	CB-M1808N-P21P2
PNP N. O.	CB-M1808P-C11P2	CB-M1808P-P11P2
PNP N. C.	CB-M1808P-C21P2	CB-M1808P-P21P2

**Technical data**

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated/ PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

**Wiring**



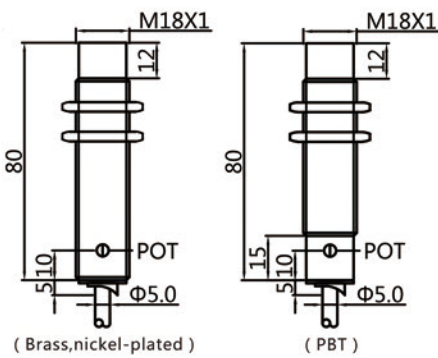


**Features :**

- M18\*1mm, Plastic/Nickel-plated brass housing;
- 15mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



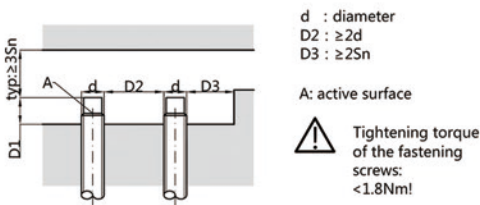
**Dimensioned drawing**



**Model No.**

Sensing range	Brass, nickel-plated	PBT
NPN N. O.	CN-M1815N-C11P2	CN-M1815N-P11P2
NPN N. C.	CN-M1815N-C21P2	CN-M1815N-P21P2
PNP N. O.	CN-M1815P-C11P2	CN-M1815P-P11P2
PNP N. C.	CN-M1815P-C21P2	CN-M1815P-P21P2

**Mounting**

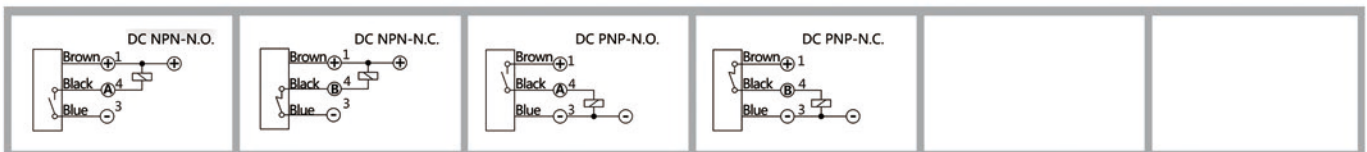


Installed in the metal	
size D1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

**Technical data**

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

**Wiring**



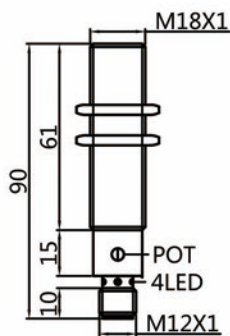


#### Features :

- M18\*1mm, Plastic/Nickel-plated brass housing;
- 8mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



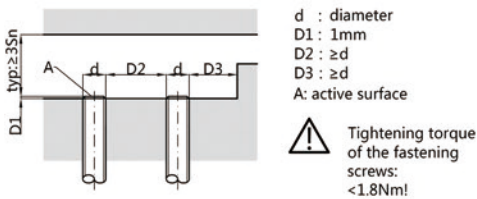
#### Dimensioned drawing



#### Model No.

Sensing range	Brass, nickel-plated	PBT
NPN N. O.	CB-M1808N-C11S12	CB-M1808N-P11S12
NPN N. C.	CB-M1808N-C21S12	CB-M1808N-P21S12
PNP N. O.	CB-M1808P-C11S12	CB-M1808P-P11S12
PNP N. C.	CB-M1808P-C21S12	CB-M1808P-P21S12

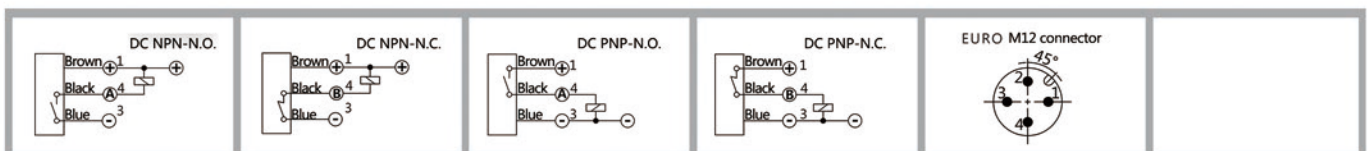
#### Mounting



#### Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2
		(to be ordered separately)

#### Wiring



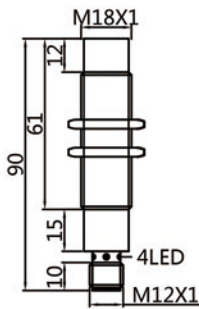


**Features :**

- M18\*1mm, Plastic/Nickel-plated brass housing;
- 15mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



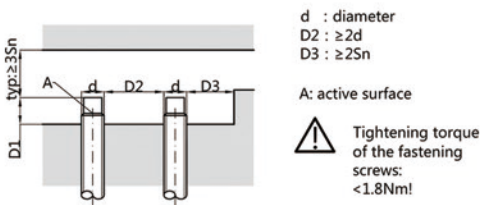
**Dimensioned drawing**



**Model No.**

Sensing range	Brass,nickel-plated	PBT
NPN N. O.	CN-M1815N-C11S12	CN-M1815N-P11S12
NPN N. C.	CN-M1815N-C21S12	CN-M1815N-P21S12
PNP N. O.	CN-M1815P-C11S12	CN-M1815P-P11S12
PNP N. C.	CN-M1815P-C21S12	CN-M1815P-P21S12

**Mounting**

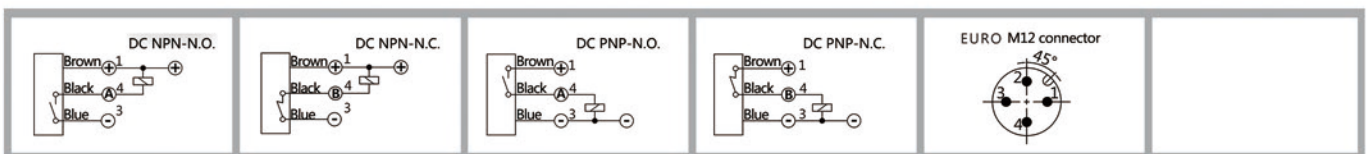


Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

**Technical data**

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

**Wiring**



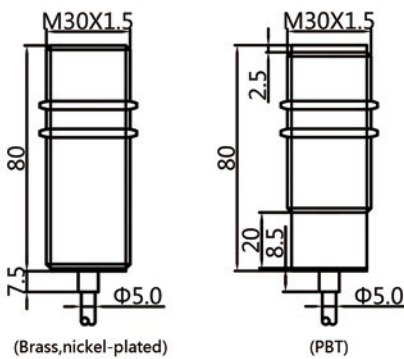


**Features :**

- M30\*1.5mm,Plastic/Nickel-plated brass housing;
- 20mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



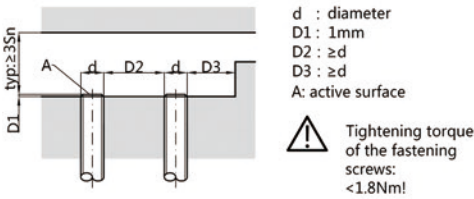
**Dimensioned drawing**



**Model No.**

Sensing range	Brass,nickel-plated	PBT
NPN N. O.	CB-M3020N-C11P2	CB-M3020N-P11P2
NPN N. C.	CB-M3020N-C21P2	CB-M3020N-P21P2
PNP N. O.	CB-M3020P-C11P2	CB-M3020P-P11P2
PNP N. C.	CB-M3020P-C21P2	CB-M3020P-P21P2

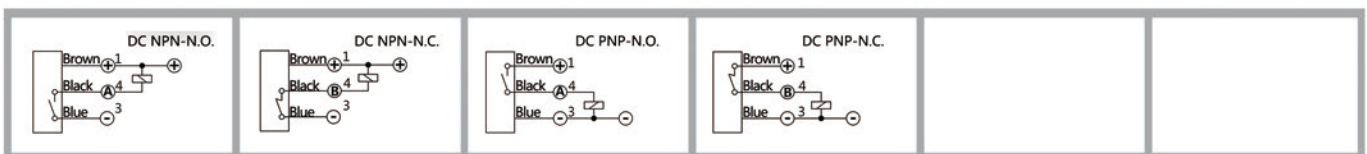
**Mounting**



**Technical data**

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

**Wiring**



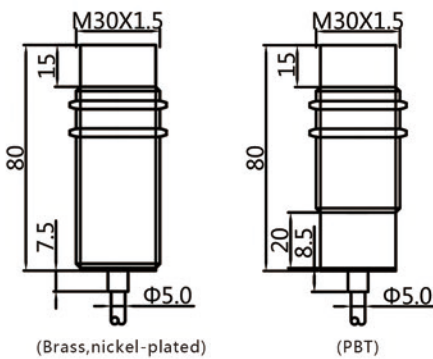


**Features :**

- M30\*1.5mm, Plastic/Nickel-plated brass housing;
- 30mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



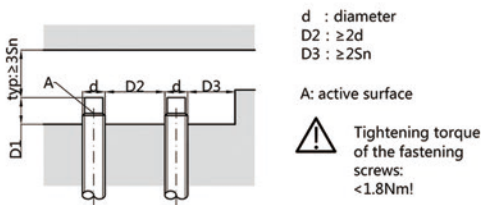
**Dimensioned drawing**



**Model No.**

Sensing range	Brass, nickel-plated	PBT
NPN N. O.	CN-M3030N-C11P2	CN-M3030N-P11P2
NPN N. C.	CN-M3030N-C21P2	CN-M3030N-P21P2
PNP N. O.	CN-M3030P-C11P2	CN-M3030P-P11P2
PNP N. C.	CN-M3030P-C21P2	CN-M3030P-P21P2

**Mounting**

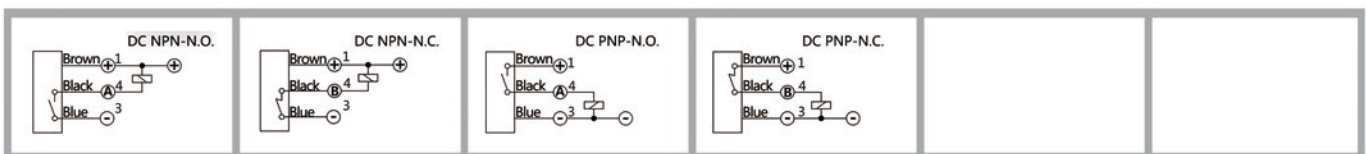


Installed in the metal	
size D1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

**Technical data**

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

**Wiring**



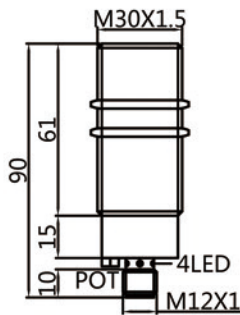


#### Features :

- M30\*1.5mm, Plastic/Nickel-plated brass housing;
- 20mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



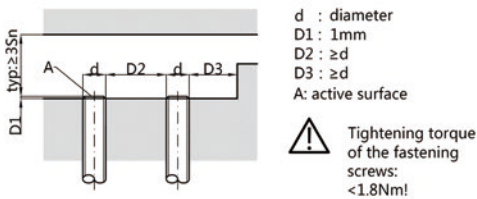
#### Dimensioned drawing



#### Model No.

Sensing range	Brass, nickel-plated	PBT
NPN N. O.	CB-M3020N-C11S12	CB-M3020N-P11S12
NPN N. C.	CB-M3020N-C21S12	CB-M3020N-P21S12
PNP N. O.	CB-M3020P-C11S12	CB-M3020P-P11S12
PNP N. C.	CB-M3020P-C21S12	CB-M3020P-P21S12

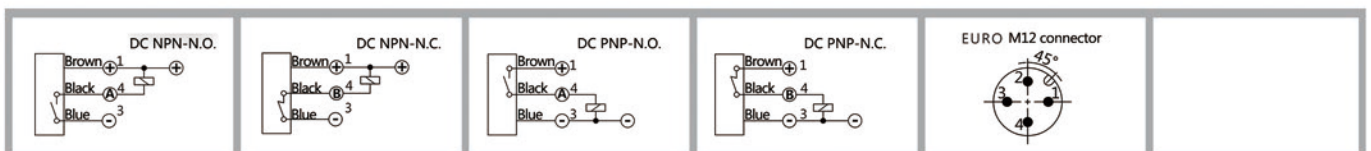
#### Mounting



#### Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated/ PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2
		(to be ordered separately)

#### Wiring



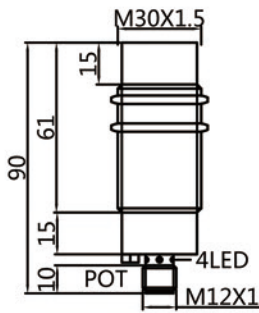


**Features :**

- M30\*1.5mm, Plastic/Nickel-plated brass housing;
- 30mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



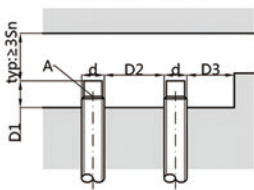
**Dimensioned drawing**



**Model No.**

Sensing range	Brass, nickel-plated	PBT
NPN N. O.	CN-M3030N-C11S12	CN-M3030N-P11S12
NPN N. C.	CN-M3030N-C21S12	CN-M3030N-P21S12
PNP N. O.	CN-M3030P-C11S12	CN-M3030P-P11S12
PNP N. C.	CN-M3030P-C21S12	CN-M3030P-P21S12

**Mounting**



d : diameter  
D2 : ≥2d  
D3 : ≥2Sn  
A: active surface  
 Tightening torque of the fastening screws: <1.8Nm!

Installed in the metal	
size D1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

**Technical data**

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

**Wiring**



General Information  
Inductive Sensors  
Capacitive Sensors  
Photoelectric Sensors  
Ultrasonic Sensors  
Connectors  
Accessories  
Index Of Types

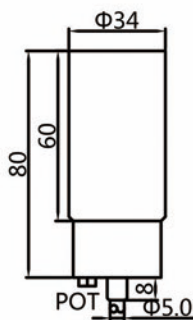


#### Features :

- Ø34mm, Plastic housing;
- 25mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



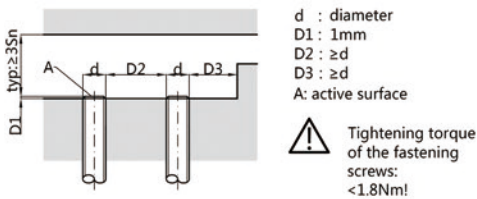
#### Dimensioned drawing



#### Model No.

Sensing range	Sn: 2-25 mm
NPN N. O.	CB-H3425N-P11P2
NPN N. C.	CB-H3425N-P21P2
PNP N. O.	CB-H3425P-P11P2
PNP N. C.	CB-H3425P-P21P2

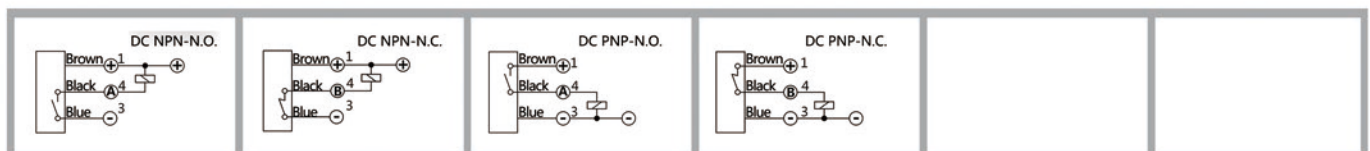
#### Mounting



#### Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

#### Wiring



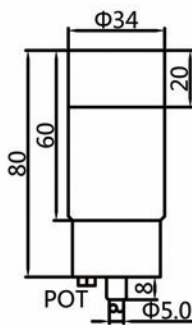


#### Features :

- Ø34mm, Plastic housing;
- 35mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



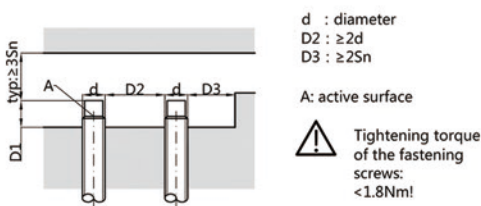
#### Dimensioned drawing



#### Model No.

Sensing range	Sn: 2-35 mm
NPN N. O.	CN-H3435N-P11P2
NPN N. C.	CN-H3435N-P21P2
PNP N. O.	CN-H3435P-P11P2
PNP N. C.	CN-H3435P-P21P2

#### Mounting



Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

#### Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	PBT
	Face material	PBT
Electrical connection	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>
Accessories	Accessories	NO (to be ordered separately)

#### Wiring



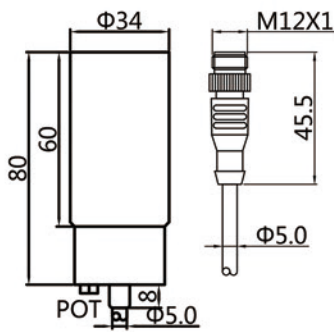


Features :

- Ø34mm, Plastic housing;
- 25mm, flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



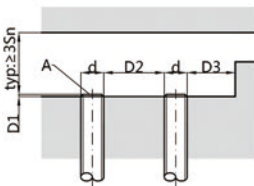
Dimensioned drawing



Model No.

Sensing range	Sn: 2-25 mm
NPN N. O.	CB-H3425N-P11Z12
NPN N. C.	CB-H3425N-P21Z12
PNP N. O.	CB-H3425P-P11Z12
PNP N. C.	CB-H3425P-P21Z12

Mounting



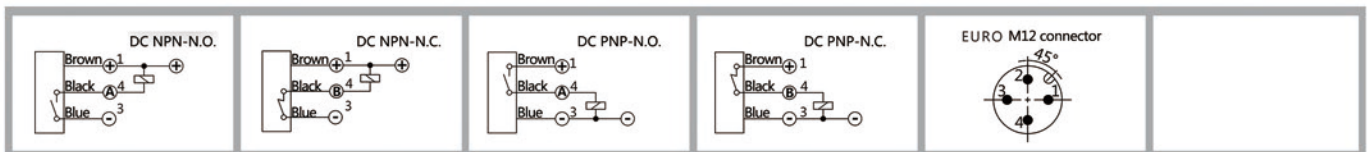
d : diameter  
D1: 1mm  
D2: ≥d  
D3: ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring



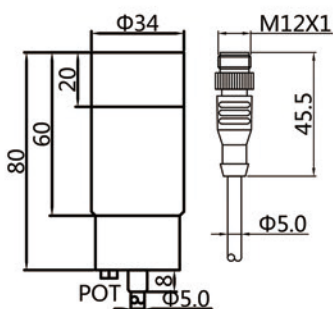


#### Features :

- Ø34mm, Plastic housing;
- 35mm, non-flush mountable;
- DC 3-wire, switching output;
- Cable & connector versions



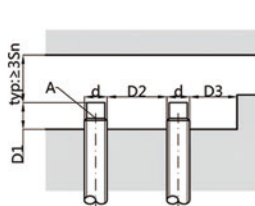
#### Dimensioned drawing



#### Model No.

Sensing range	Sn: 2-35 mm
NPN N. O.	CN-H3435N-P11Z12
NPN N. C.	CN-H3435N-P21Z12
PNP N. O.	CN-H3435P-P11Z12
PNP N. C.	CN-H3435P-P21Z12

#### Mounting



d : diameter  
D2 : ≥2d  
D3 : ≥2Sn

A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

#### Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)

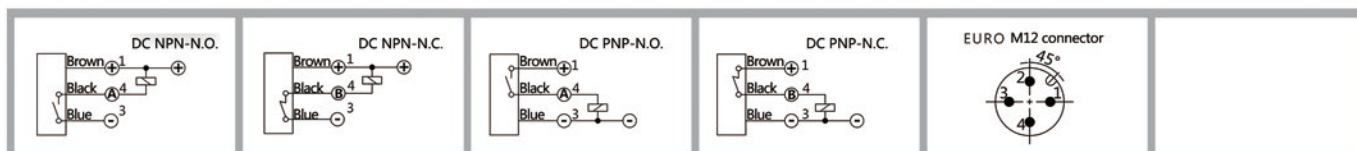
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67

Mechanical data	Housing material	PBT
	Face material <th>PBT</th>	PBT

Electrical connection	Connectors	M12 connector
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Accessories	Accessories	B12-4GV2/B12-4WV2
		(to be ordered separately)

#### Wiring



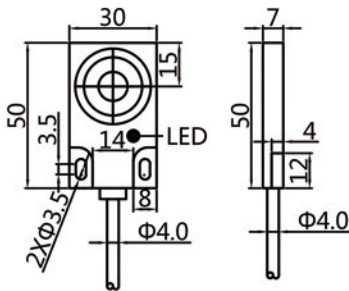


Features :

- Q30 Plastic housing;
- 6/10mm, flush/non-flush mountable;
- DC 3-wire, switching output;
- Cable version



Dimensioned drawing

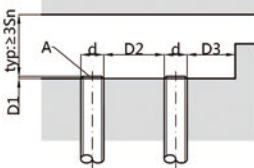


Model No.

Sensing range	Sn: 2-6 mm	Sn: 2-10 mm
NPN N. O.	CB-Q3006N-P11P2	CN-Q3010N-P11P2
NPN N. C.	CB-Q3006N-P21P2	CN-Q3010N-P21P2
PNP N. O.	CB-Q3006P-P11P2	CN-Q3010P-P11P2
PNP N. C.	CB-Q3006P-P21P2	CN-Q3010P-P21P2

Mounting

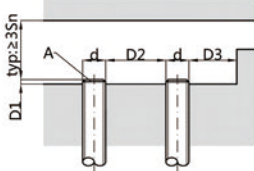
( flush mounting )



d : diameter  
D1: 1mm  
D2: ≥d  
D3: ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

quasi-flush mounting



d : diameter  
D2: ≥2d  
D3: ≥Sn

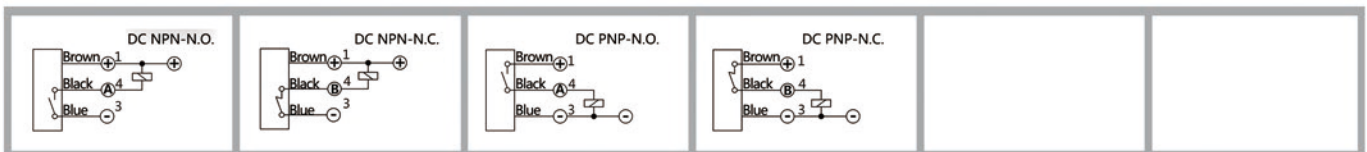
⚠ Tightening torque of the fastening screws: <1.8Nm!

Installed in the metal	
sizeD1	D1(mm)
φ6.5	2
M8	2
Q8	2
M12	2.5
M18	4
M30	8

Technical data

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<2VDC
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.25mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

Wiring



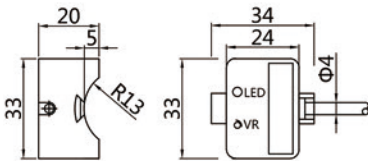


**Features :**

- Q33 Plastic housing;
- 3mm, flush mountable;
- DC 3-wire, switching output;
- Cable version



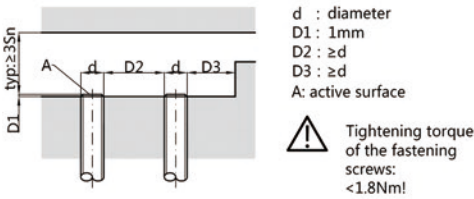
**Dimensioned drawing**



**Model No.**

Sensing range	Sn: 3 mm
NPN N. O.	CB-Q3303N-P11P2
NPN N. C.	CB-Q3303N-P21P2
PNP N. O.	CB-Q3303P-P11P2
PNP N. C.	CB-Q3303P-P21P2

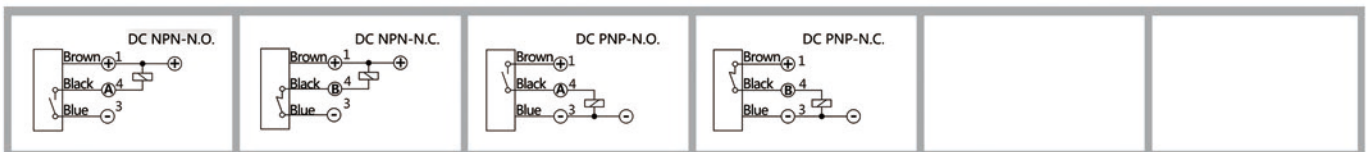
**Mounting**



**Technical data**

<b>Electrical data</b>	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	<1VDC
	Load current	200mA
	No load current	< 12mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	ABS
	Face material	ABS
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.25mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

**Wiring**



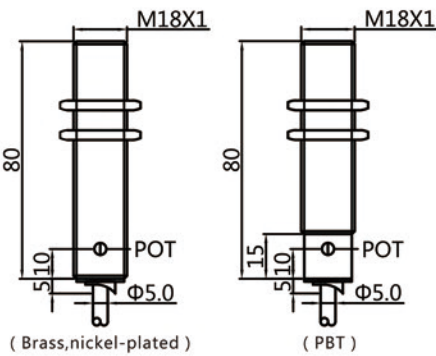


**Features :**

- M18\*1mm,Plastic/Nickel-plated brass housing;
- 8mm, flush mountable;
- AC 2-wire,AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Connector version



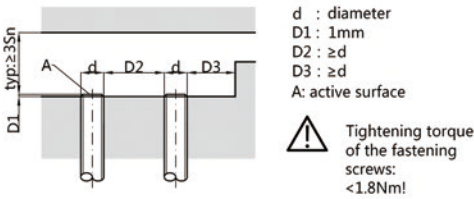
**Dimensioned drawing**



**Model No.**

Sensing range	Brass,nickel-plated	PBT
N. O.	CB-M1808A-C14P2	CB-M1808A-P14P2
N. C.	CB-M1808A-C24P2	CB-M1808A-P24P2
N. O.	CB-M1808U-C15P2	CB-M1808U-P15P2
N. C.	CB-M1808U-C25P2	CB-M1808U-P25P2

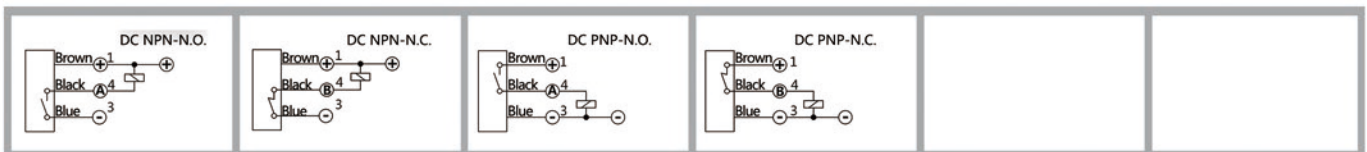
**Mounting**



**Technical data**

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC	
	Switching frequency	25Hz / 25Hz AC,40Hz DC	
	Voltage drop	$<9\text{VAC}$ (300mA) / $<10\text{VAC}$ , $<8\text{VDC}$	
	Load current	Max. Load:300mA Min. Load: 5mA	
		Max. Load:200mA Min. Load: 5mA	
	Residual current	$<2.5\text{mA}$	
	Hysteresis	$<15\%$ (Sr)	
	Repeatability	$<5\%$ (Sr)	
	<b>Environment</b>	Ambient temperature	$-25\text{...}70^\circ\text{C}$
		Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated/ PBT	
	Face material	PBT	
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>	
<b>Accessories</b>	Accessories	NO	
		(to be ordered separately)	

**Wiring**



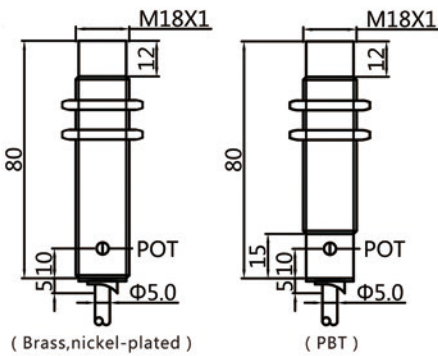


**Features :**

- M18\*1mm,Plastic/Nickel-plated brass housing;
- 15mm, non-flush mountable;
- AC 2-wire,AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



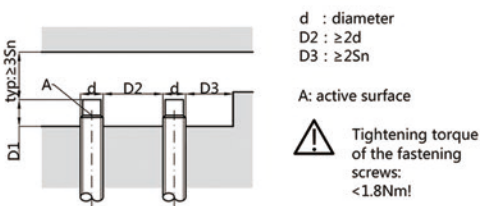
**Dimensioned drawing**



**Model No.**

Sensing range	Brass,nickel-plated	PBT
N. O.	CN-M1815A-C14P2	CN-M1815A-P14P2
N. C.	CN-M1815A-C24P2	CN-M1815A-P24P2
N. O.	CN-M1815U-C15P2	CN-M1815U-P15P2
N. C.	CN-M1815U-C25P2	CN-M1815U-P25P2

**Mounting**

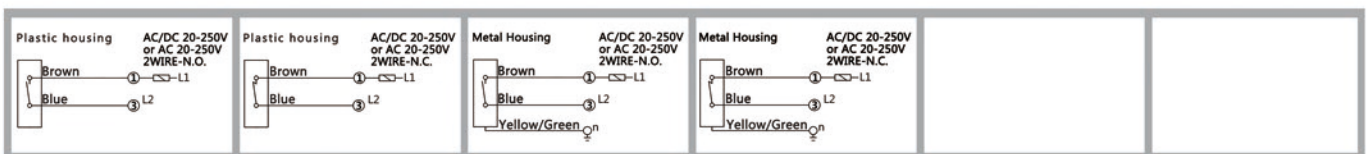


Installed in the metal	
sizeD1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

**Technical data**

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC
	Switching frequency	25Hz / 25Hz AC,40Hz DC
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC
	Load current	Max. Load:300mA Min. Load: 5mA
		Max. Load:200mA Min. Load: 5mA
	Residual current	<2.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

**Wiring**





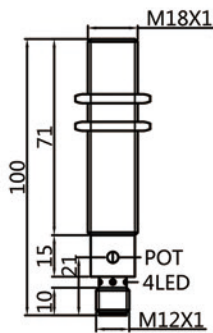


Features :

- M18\*1mm,Plastic/Nickel-plated brass housing;
- 8mm, flush mountable;
- AC 2-wire,AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector version



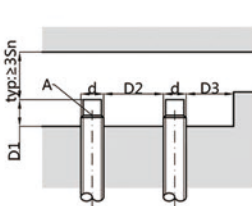
Dimensioned drawing



Model No.

Sensing range	Brass,nickel-plated	PBT
N. O.	CB-M1808A-C14S12	CB-M1808A-P14S12
N. C.	CB-M1808A-C24S12	CB-M1808A-P24S12
N. O.	CB-M1808U-C15S12	CB-M1808U-P15S12
N. C.	CB-M1808U-C25S12	CB-M1808U-P25S12

Mounting



d : diameter  
D2 : ≥2d  
D3 : ≥2Sn

A: active surface

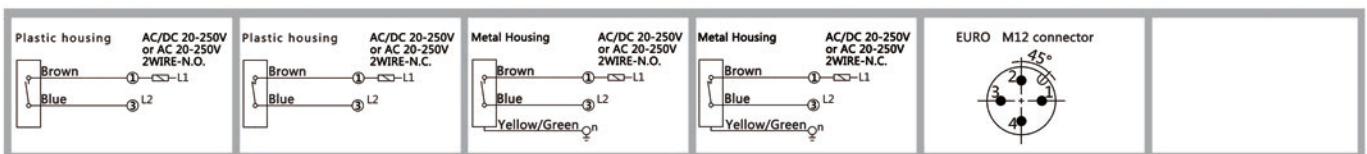
⚠ Tightening torque of the fastening screws: <1.8Nm!

Installed in the metal	sizeD1	D1(mm)
φ6.5	6	6
M8	6	6
Q8	6	6
M12	9	9
M18	16	16
M30	22	22

Technical data

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC
	Switching frequency	25Hz / 25Hz AC,40Hz DC
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC
	Load current	Max. Load:300mA Min. Load: 5mA
		Max. Load:200mA Min. Load: 5mA
		Residual current
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass,nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring



**Capacitive sensors**

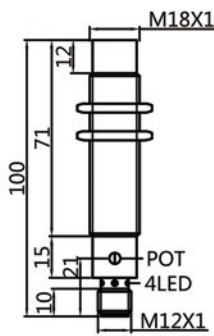


Features :

- M18\*1mm, Plastic/Nickel-plated brass housing;
- 15mm, non-flush mountable;
- AC 2-wire, AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



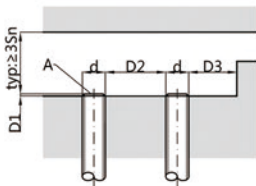
Dimensioned drawing



Model No.

Sensing range	Brass, nickel-plated	PBT
N. O.	CN-M1815A-C14S12	CN-M1815A-P14S12
N. C.	CN-M1815A-C24S12	CN-M1815A-P24S12
N. O.	CN-M1815U-C15S12	CN-M1815U-P15S12
N. C.	CN-M1815U-C25S12	CN-M1815U-P25S12

Mounting



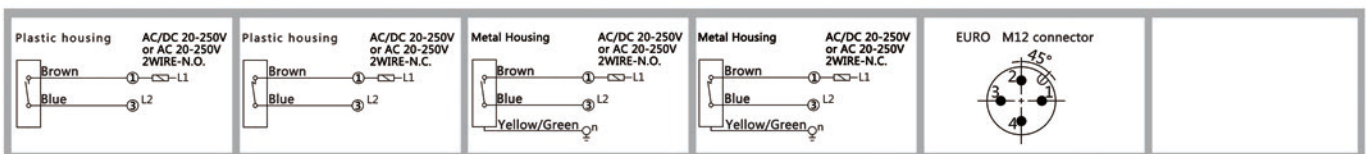
d : diameter  
D1 : 1mm  
D2 : ≥d  
D3 : ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

Technical data

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC	
	Switching frequency	25Hz / 25Hz AC, 40Hz DC	
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC	
	Load current	Max. Load: 300mA Min. Load: 5mA	
		Max. Load: 200mA Min. Load: 5mA	
	Residual current	<2.5mA	
	Hysteresis	<15%(Sr)	
	Repeatability	<5%(Sr)	
	<b>Environment</b>	Ambient temperature	-25...70°C
		Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated/ PBT	
	Face material	PBT	
<b>Electrical connection</b>	Connectors	M12 connector	
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2	
		(to be ordered separately)	

Wiring



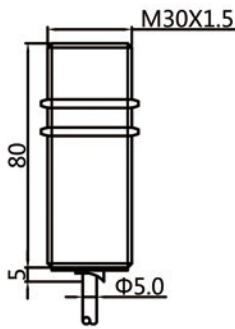


**Features :**

- M30\*1.5 mm, Plastic/Nickel-plated brass housing;
- 20mm, flush mountable;
- AC 2-wire, AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



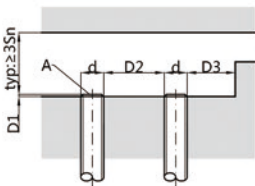
**Dimensioned drawing**



**Model No.**

Sensing range	Brass, nickel-plated	PBT
N. O.	CB-M3020A-C14P2	CB-M3020A-P14P2
N. C.	CB-M3020A-C24P2	CB-M3020A-P24P2
N. O.	CB-M3020U-C15P2	CB-M3020U-P15P2
N. C.	CB-M3020U-C25P2	CB-M3020U-P25P2

**Mounting**



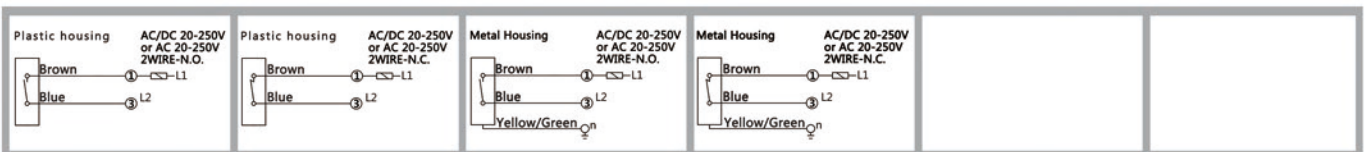
d : diameter  
D1 : 1mm  
D2 : ≥d  
D3 : ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

**Technical data**

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC
	Switching frequency	25Hz / 25Hz AC, 40Hz DC
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC
	Load current	Max. Load: 300mA Min. Load: 5mA
		Max. Load: 200mA Min. Load: 5mA
	Residual current	<2.5mA
	Hysteresis	<15%(Sr)
Repeatability	<5%(Sr)	
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated/ PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 2*0.5mm <sup>2</sup> /3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO
		(to be ordered separately)

**Wiring**



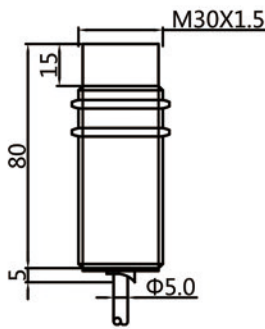


**Features :**

- M30\*1.5 mm, Plastic/Nickel-plated brass housing;
- 30mm, non-flush mountable;
- AC 2-wire, AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



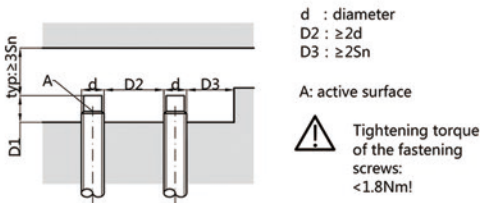
**Dimensioned drawing**



**Model No.**

Sensing range	Brass, nickel-plated	PBT
N. O.	CN-M3030A-C14P2	CN-M3030A-P14P2
N. C.	CN-M3030A-C24P2	CN-M3030A-P24P2
N. O.	CN-M3030U-C15P2	CN-M3030U-P15P2
N. C.	CN-M3030U-C25P2	CN-M3030U-P25P2

**Mounting**

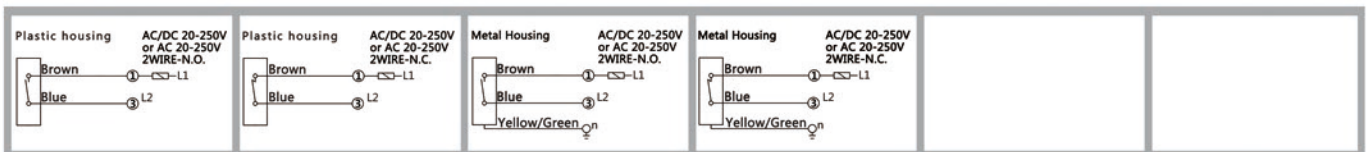


Installed in the metal	
size D1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

**Technical data**

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC
	Switching frequency	25Hz / 25Hz AC, 40Hz DC
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC
	Load current	Max. Load: 300mA Min. Load: 5mA
		Max. Load: 200mA Min. Load: 5mA
	Residual current	<2.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 2*0.5mm <sup>2</sup> /3*0.35mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

**Wiring**



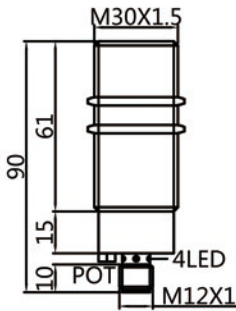


**Features :**

- M30\*1.5 mm, Plastic/Nickel-plated brass housing;
- 20mm, flush mountable;
- AC 2-wire, AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



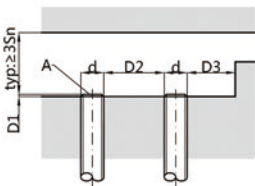
**Dimensioned drawing**



**Model No.**

Sensing range	Brass, nickel-plated	PBT
N. O.	CB-M3020A-C14S12	CB-M3020A-P14S12
N. C.	CB-M3020A-C24S12	CB-M3020A-P24S12
N. O.	CB-M3020U-C15S12	CB-M3020U-P15S12
N. C.	CB-M3020U-C25S12	CB-M3020U-P25S12

**Mounting**



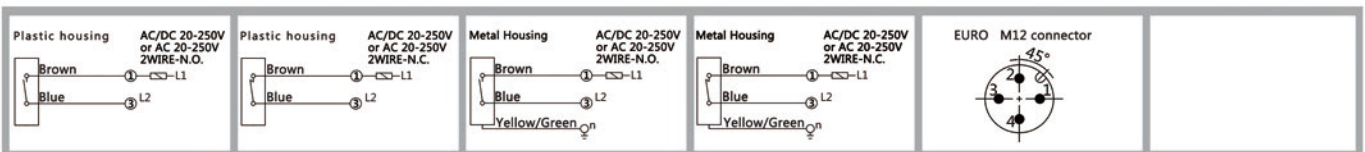
d : diameter  
D1 : 1mm  
D2 : ≥d  
D3 : ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

**Technical data**

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC
	Switching frequency	25Hz / 25Hz AC, 40Hz DC
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC
	Load current	Max. Load: 300mA Min. Load: 5mA
		Max. Load: 200mA Min. Load: 5mA
	Residual current	<2.5mA
	Hysteresis	<15%(Sr)
Repeatability	<5%(Sr)	
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2
		(to be ordered separately)

**Wiring**



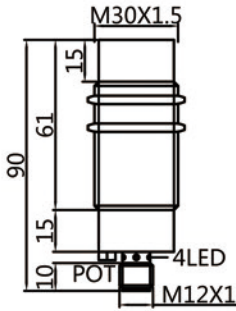


**Features :**

- M30\*1.5 mm, Plastic/Nickel-plated brass housing;
- 30mm, non-flush mountable;
- AC 2-wire, AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



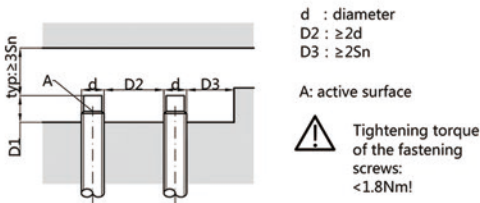
**Dimensioned drawing**



**Model No.**

Sensing range	Brass, nickel-plated	PBT
N. O.	CN-M3030A-C14S12	CN-M3030A-P14S12
N. C.	CN-M3030A-C24S12	CN-M3030A-P24S12
N. O.	CN-M3030U-C15S12	CN-M3030U-P15S12
N. C.	CN-M3030U-C25S12	CN-M3030U-P25S12

**Mounting**

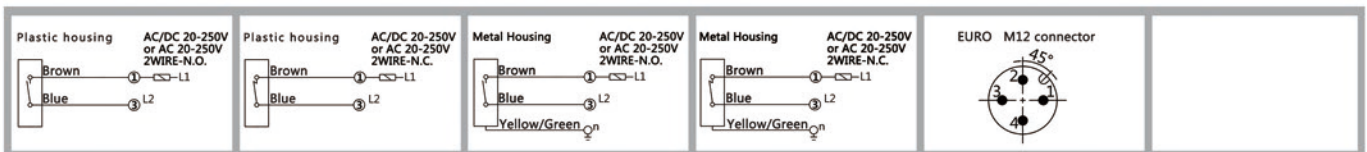


Installed in the metal	
size D1	D1 (mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

**Technical data**

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC
	Switching frequency	25Hz / 25Hz AC, 40Hz DC
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC
	Load current	Max. Load: 300mA Min. Load: 5mA
		Max. Load: 200mA Min. Load: 5mA
		Residual current
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	Brass, nickel-plated / PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

**Wiring**

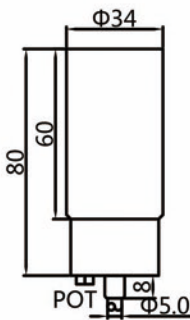


Features :

- Ø34mm, Plastic housing;
- 25mm, flush mountable;
- AC 2-wire, AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



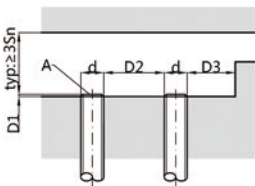
Dimensioned drawing



Model No.

Sensing range	Sn: 2-25 mm
N. O.	CB-H3425A-P14P2
N. C.	CB-H3425A-P24P2
N. O.	CB-H3425U-P15P2
N. C.	CB-H3425U-P25P2

Mounting



d : diameter  
D1: 1mm  
D2: ≥d  
D3: ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

Technical data

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC
	Switching frequency	25Hz / 25Hz AC, 40Hz DC
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC
	Load current	Max. Load: 300mA Min. Load: 5mA
		Max. Load: 200mA Min. Load: 5mA
	Residual current	<2.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 2*0.5mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

Wiring



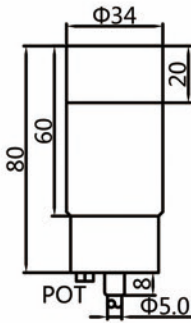


**Features :**

- Ø34mm, Plastic housing;
- 35mm, non-flush mountable;
- AC 2-wire, AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



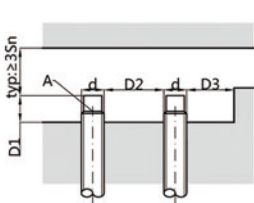
**Dimensioned drawing**



**Model No.**

Sensing range	Sn: 2-35 mm
N. O.	CN-H3435A-P14P2
N. C.	CN-H3435A-P24P2
N. O.	CN-H3435U-P15P2
N. C.	CN-H3435U-P25P2

**Mounting**



d : diameter  
D2 : ≥2d  
D3 : ≥2Sn

A: active surface

Tightening torque of the fastening screws: <1.8Nm!

Installed in the metal	
size D1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

**Technical data**

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC
	Switching frequency	25Hz / 25Hz AC, 40Hz DC
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC
	Load current	Max. Load: 300mA Min. Load: 5mA
		Max. Load: 200mA Min. Load: 5mA
		Residual current
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	PVC cable/2m; 2*0.5mm <sup>2</sup>
<b>Accessories</b>	Accessories	NO (to be ordered separately)

**Wiring**





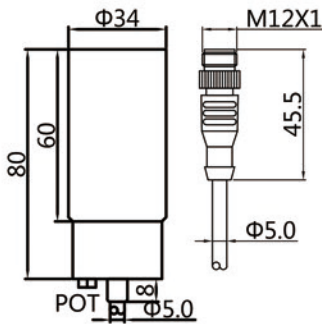


**Features :**

- Ø34mm, Plastic housing;
- 25mm, flush mountable;
- AC 2-wire, AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



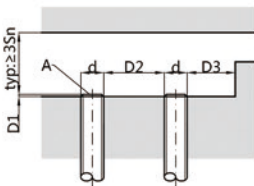
**Dimensioned drawing**



**Model No.**

Sensing range	Sn: 2-25 mm
N. O.	CB-H3425A-P14Z12
N. C.	CB-H3425A-P24Z12
N. O.	CB-H3425U-P15Z12
N. C.	CB-H3425U-P25Z12

**Mounting**



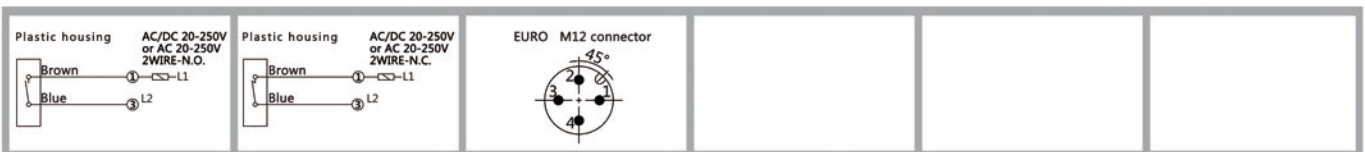
d : diameter  
D1: 1mm  
D2: ≥d  
D3: ≥d  
A: active surface

⚠ Tightening torque of the fastening screws: <1.8Nm!

**Technical data**

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC	
	Switching frequency	25Hz / 25Hz AC, 40Hz DC	
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC	
	Load current	Max. Load: 300mA Min. Load: 5mA	
		Max. Load: 200mA Min. Load: 5mA	
	Residual current	<2.5mA	
	Hysteresis	<15%(Sr)	
	Repeatability	<5%(Sr)	
	<b>Environment</b>	Ambient temperature	-25...70°C
		Ingress protection	IP67
<b>Mechanical data</b>	Housing material	PBT	
	Face material	PBT	
<b>Electrical connection</b>	Connectors	M12 connector	
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)	

**Wiring**



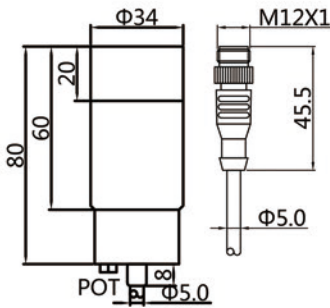


**Features :**

- Ø34mm, Plastic housing;
- 35mm, non-flush mountable;
- AC 2-wire, AC/DC 2-wire, switching output;
- Momentary current: 5A(20ms) / 2.2A(20ms);
- Cable & connector versions



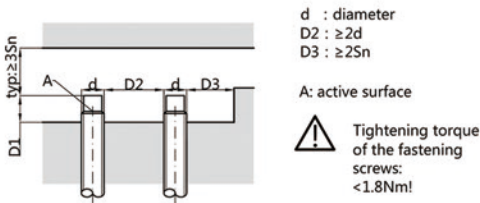
**Dimensioned drawing**



**Model No.**

Sensing range	Sn: 2-35 mm
N. O.	CN-H3435A-P14Z12
N. C.	CN-H3435A-P24Z12
N. O.	CN-H3435U-P15Z12
N. C.	CN-H3435U-P25Z12

**Mounting**



Installed in the metal	
size D1	D1(mm)
φ6.5	6
M8	6
Q8	6
M12	9
M18	16
M30	22

**Technical data**

<b>Electrical data</b>	Operating voltage	20-250VAC , 20-250V AC/DC
	Switching frequency	25Hz / 25Hz AC, 40Hz DC
	Voltage drop	<9VAC (300mA) / <10VAC , <8VDC
	Load current	Max. Load: 300mA Min. Load: 5mA
		Max. Load: 200mA Min. Load: 5mA
	Residual current	<2.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<5%(Sr)
<b>Environment</b>	Ambient temperature	-25...70°C
	Ingress protection	IP67
<b>Mechanical data</b>	Housing material	PBT
	Face material	PBT
<b>Electrical connection</b>	Connectors	M12 connector
<b>Accessories</b>	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

**Wiring**

