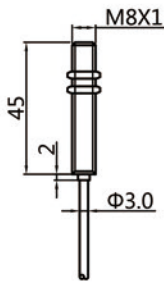


Features :

- M8*1 mm, Stainless steel housing;
- 2mm, flush mountable;
- DC 3-wire, switching output;
- Withstand low-temperatures(-40...85°C);
- Cable version



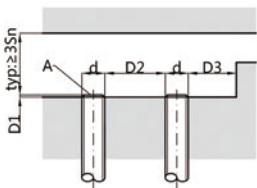
Dimensioned drawing



Model No.

Sensing range	Sn : 2 mm
NPN N. O.	BLB-M802N-V11U2
NPN N. C.	BLB-M802N-V21U2
PNP N. O.	BLB-M802P-V11U2
PNP N. C.	BLB-M802P-V21U2

Mounting



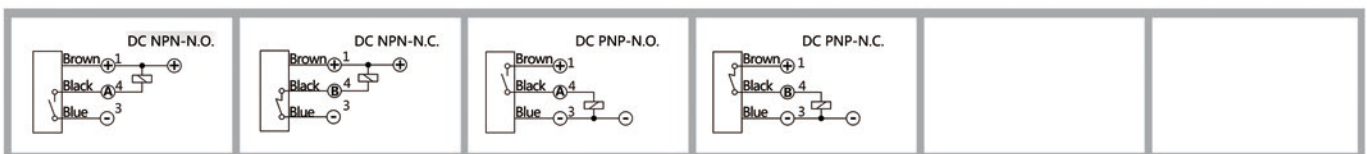
d : diameter
D1 : 1mm
D2 : ≥d
D3 : ≥d
A: active surface

Tightening torque of the fastening screws: <1.8Nm!

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	3000Hz
	Voltage drop	<1.5V
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
Environment	Ambient temperature	-40...85°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	PBT
Electrical connection	Connectors	PUR cable/2m; 3*0.18mm ²
	Accessories	NO
Accessories	(to be ordered separately)	

Wiring



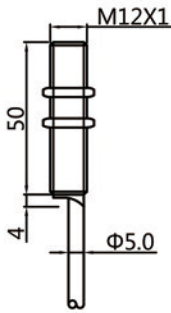


Features :

- M12*1 mm, Nickel-plated brass housing;
- 4mm, flush mountable;
- DC 3-wire, switching output;
- Withstand Low-temperatures(-40...85°C);
- Cable version



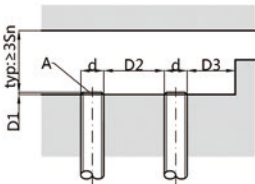
Dimensioned drawing



Model No.

Sensing range	Sn: 4 mm
NPN N. O.	BLB-M1204N-C11U2
NPN N. C.	BLB-M1204N-C21U2
PNP N. O.	BLB-M1204P-C11U2
PNP N. C.	BLB-M1204P-C21U2

Mounting



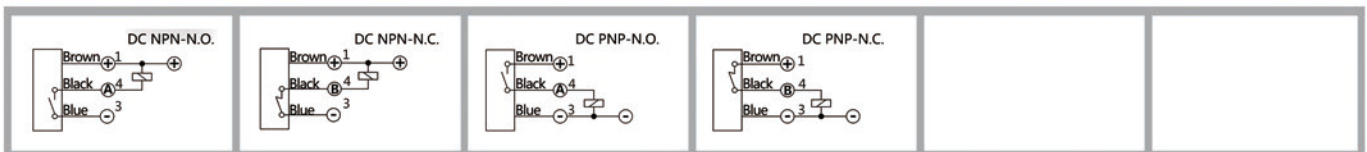
d : diameter
D1: 1mm
D2: ≥d
D3: ≥d
A: active surface

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

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	3000Hz
	Voltage drop	<1.5V
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
Environment	Ambient temperature	-40...85°C
	Ingress protection	IP67
Mechanical data	Housing material	Brass,nickel-plated
	Face material	PBT
Electrical connection	Connectors	PUR cable/2m; 3*0.35mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



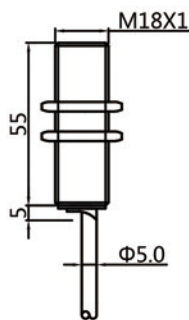


Features :

- M18*1 mm, Nickel-plated brass housing;
- 8mm, flush mountable;
- DC 3-wire, switching output;
- Withstand low-temperatures(-40...85°C);
- Cable version



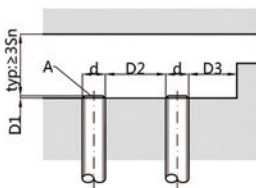
Dimensioned drawing



Model No.

Sensing range	Sn: 8 mm
NPN N. O.	BLB-M1808N-C11U2
NPN N. C.	BLB-M1808N-C21U2
PNP N. O.	BLB-M1808P-C11U2
PNP N. C.	BLB-M1808P-C21U2

Mounting



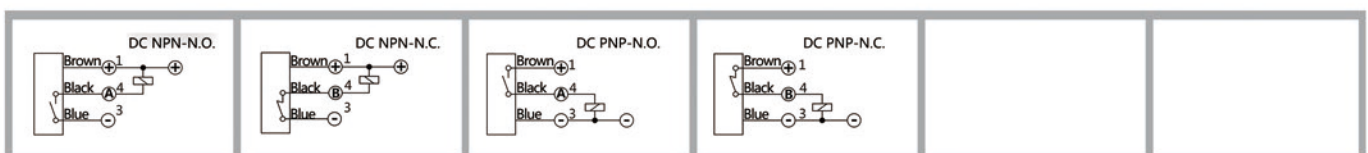
d : diameter
D1: 1mm
D2: ≥d
D3: ≥d
A: active surface

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

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	3000Hz
	Voltage drop	<1.5V
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
Environment	Ambient temperature	-40...85°C
	Ingress protection	IP67
Mechanical data	Housing material	Brass,nickel-plated
	Face material	PBT
Electrical connection	Connectors	PUR cable/2m; 3*0.35mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



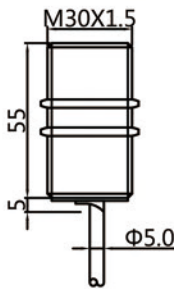


Features :

- M30*1.5mm, Stainless steel housing;
- 10mm, flush mountable;
- DC 3-wire, switching output;
- Withstand low-temperatures(-40...85°C);
- Cable version



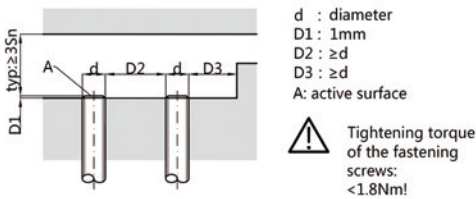
Dimensioned drawing



Model No.

Sensing range	Sn: 10 mm
NPN N. O.	BLB-M3010N-C11U2
NPN N. C.	BLB-M3010N-C21U2
PNP N. O.	BLB-M3010P-C11U2
PNP N. C.	BLB-M3010P-C21U2

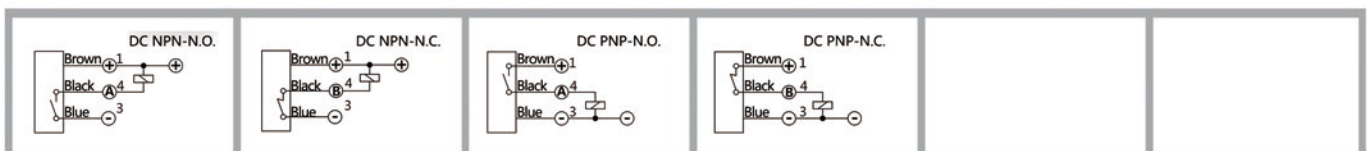
Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	300Hz
	Voltage drop	<1.5V
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
Environment	Ambient temperature	-40...85°C
	Ingress protection	IP67
Mechanical data	Housing material	Brass,nickel-plated
	Face material	PBT
Electrical connection	Connectors	PUR cable/2m; 3*0.35mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



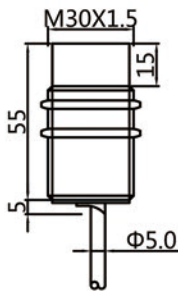


Features :

- M30*1.5mm, Stainless steel housing;
- 15mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand low-temperatures(-40...85°C);
- Cable version



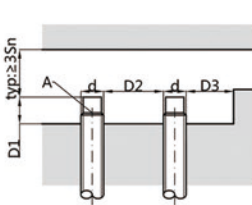
Dimensioned drawing



Model No.

Sensing range	Sn : 15 mm
NPN N. O.	BLN-M3015N-C11U2
NPN N. C.	BLN-M3015N-C21U2
PNP N. O.	BLN-M3015P-C11U2
PNP N. C.	BLN-M3015P-C21U2

Mounting



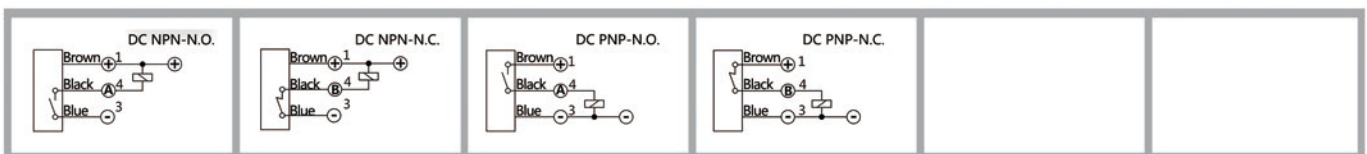
d : diameter
 D2 : ≥2d
 D3 : ≥2Sn
 A: active surface
 Tightening torque of the fastening screws: <1.8Nm!

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	150Hz
	Voltage drop	<1.5V
	Load current	200mA
	No load current	< 10mA (24 V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
Environment	Ambient temperature	-40...85°C
	Ingress protection	IP67
Mechanical data	Housing material	Brass,nickel-plated
	Face material	PBT
Electrical connection	Connectors	PUR cable/2m; 3*0.35mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring

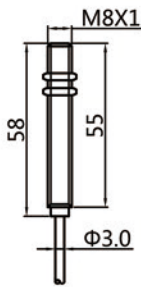




- M8*1 mm, Metal housing ;
- 2mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-10...140°C);
- Cable version



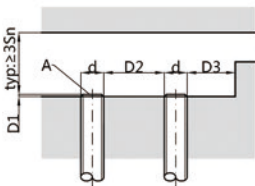
Dimensioned drawing



Model No.

Sensing range	Sn: 2 mm
PNP	BHB-M802P-V11F2-140EXT
NPN	BHB-M802N-V11F2-140EXT

Mounting



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

Tightening torque of the fastening screws: <1.8Nm!

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	800Hz/140°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-10...140°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFEcable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



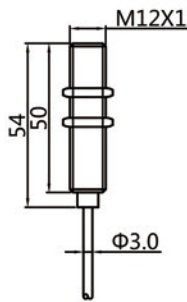


Features :

- M12*1 mm, Metal housing ;
- 2mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...120°C);
- Cable version



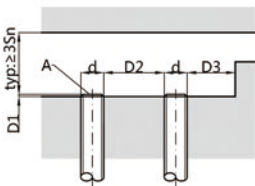
Dimensioned drawing



Model No.

Sensing range	Sn : 2 mm
PNP	BHB-M1202P-V11F2-120
NPN	BHB-M1202N-V11F2-120

Mounting



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

Tightening torque of the fastening screws: <1.8Nm!

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz/120°C
	Voltage drop	<1.8V
	Load current	100mA/24VDC
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...120°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



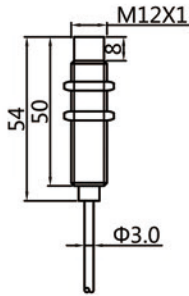


Features :

- M12*1 mm, Metal housing ;
- 4mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures:(-25...120°C);
- Cable & version



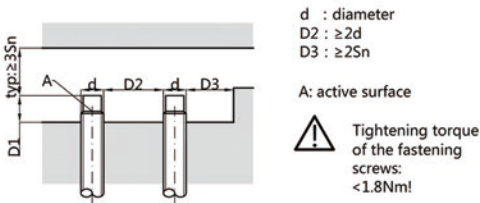
Dimensioned drawing



Model No.

Sensing range	Sn : 4 mm
PNP	BHN-M1204P-V11F2-120
NPN	BHN-M1204N-V11F2-120

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	500Hz/120°C
	Voltage drop	<1.8V
	Load current	100mA/24VDC
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...120°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



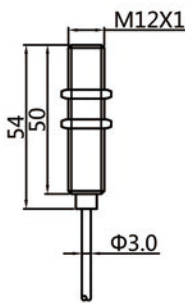


Features :

- M12*1 mm, Metal housing ;
- 3mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...150°C);
- Cable version



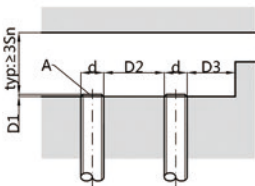
Dimensioned drawing



Model No.

Sensing range	Sn : 3 mm
PNP	BHB-M1203P-V11F2-150EXT
NPN	BHB-M1203N-V11F2-150EXT

Mounting



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

Tightening torque of the fastening screws: <1.8Nm!

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz/150°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...150°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFEcable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



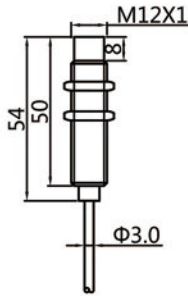


Features :

- M12*1 mm, Metal housing ;
- 4mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...150°C);
- Cable versions



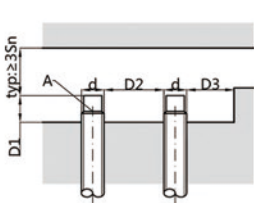
Dimensioned drawing



Model No.

Sensing range	Sn : 4 mm
PNP	BHN-M1204P-V11F2-150EXT
NPN	BHN-M1204N-V11F2-150EXT

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	500Hz/150°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...150°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFEcable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



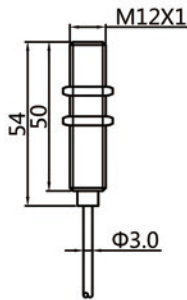


Features :

- M12*1 mm, Metal housing ;
- 2mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...220°C);
- Cable version



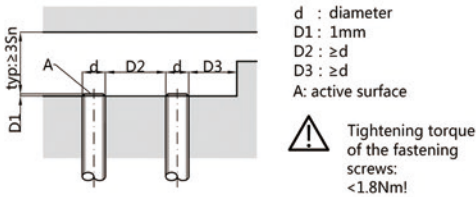
Dimensioned drawing



Model No.

Sensing range	Sn : 2 mm
PNP	BHB-M1202P-V11F3-220EXT
NPN	BHB-M1202N-V11F3-220EXT

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz/220°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...220°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/3m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



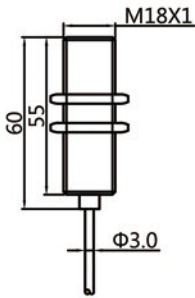


Features :

- M18*1 mm, Metal housing ;
- 5mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...120°C);
- Cable version



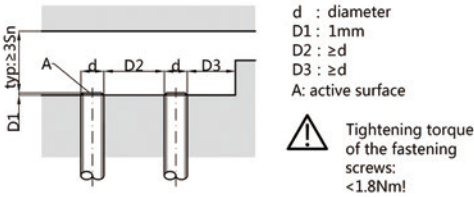
Dimensioned drawing



Model No.

Sensing range	Sn: 5 mm
PNP	BHB-M1805P-V11F2-120
NPN	BHB-M1805N-V11F2-120

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	800Hz/120°C
	Voltage drop	<1.8V
	Load current	100mA/24VDC
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...120°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



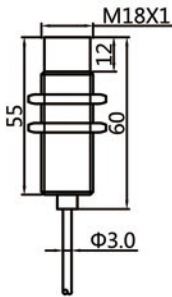


Features :

- M18*1 mm, Metal housing;
- 8mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...120°C);
- Cable version



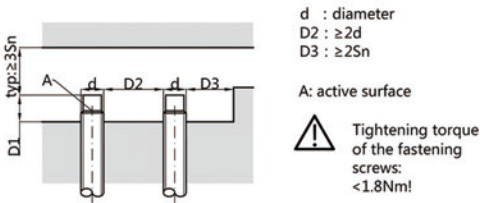
Dimensioned drawing



Model No.

Sensing range	Sn : 8 mm
PNP	BHN-M1808P-V11F2-120
NPN	BHN-M1808N-V11F2-120

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	800Hz/120°C
	Voltage drop	<1.8V
	Load current	100mA/24VDC
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...120°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



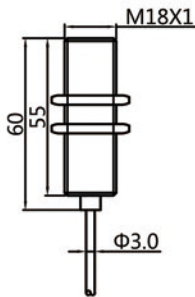


Features :

- M18*1 mm, Metal housing;
- 5mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...150°C);
- Cable version



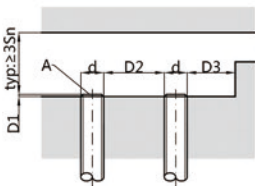
Dimensioned drawing



Model No.

Sensing range	Sn: 5 mm
PNP	BHB-M1805P-V11F2-150EXT
NPN	BHB-M1805N-V11F2-150EXT

Mounting



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

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

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	800Hz/150°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...150°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFEcable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



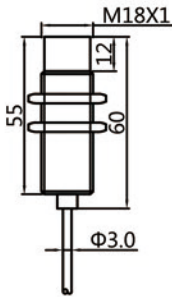


Features :

- M18*1 mm, Metal housing;
- 8mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand low-temperatures(-25...150°C);
- Cable version



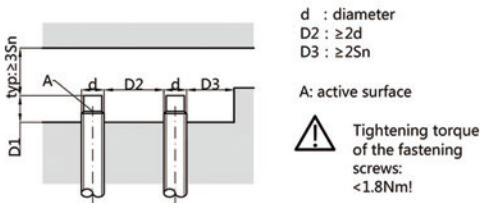
Dimensioned drawing



Model No.

Sensing range	Sn : 8 mm
PNP	BHN-M1808P-V11F2-150EXT
NPN	BHN-M1808N-V11F2-150EXT

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	800Hz/150°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...150°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



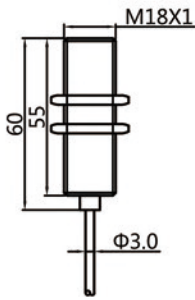


Features :

- M18*1 mm, Metal housing;
- 5mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...180°C);
- Cable version



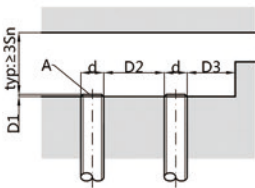
Dimensioned drawing



Model No.

Sensing range	Sn: 5 mm
PNP	BHB-M1805P-V11F2-180EXT
NPN	BHB-M1805N-V11F2-180EXT

Mounting



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

Tightening torque of the fastening screws: <1.8Nm!

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	800Hz/180°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...180°C
	Ingress protection	IP66
Mechanical data	Housing material	1.4305 St Stl
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



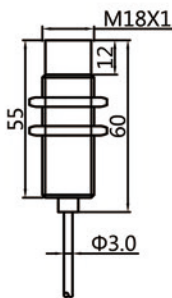


Features :

- M18*1 mm, Metal housing;
- 8mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...180°C);
- Cable version



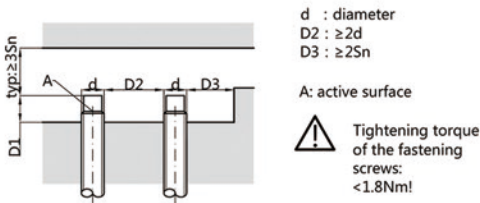
Dimensioned drawing



Model No.

Sensing range	Sn : 8 mm
PNP	BHN-M1808P-V11F2-180EXT
NPN	BHN-M1808N-V11F2-180EXT

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	800Hz/180°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...180°C
	Ingress protection	IP66
Mechanical data	Housing material	1.4305 St Stl
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



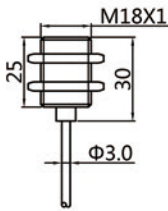


Features :

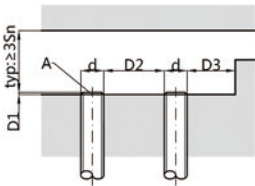
- M18*1 mm, Metal housing;
- 5mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...230°C);
- Cable version



Dimensioned drawing



Mounting



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

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

Model No.

Sensing range	Sn : 5 mm
PNP	BHB-M1805P-V11F2-230EXT-S
NPN	BHB-M1805N-V11F2-230EXT-S

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz/230°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...230°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/3m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



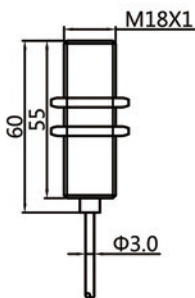


Features :

- M18*1 mm, Metal housing;
- 5mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...230°C);
- Cable version



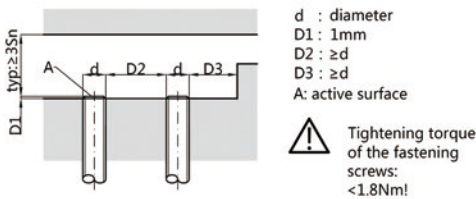
Dimensioned drawing



Model No.

Sensing range	Sn : 5 mm
PNP	BHB-M1805P-V11F3-230EXT
NPN	BHB-M1805N-V11F3-230EXT

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz/230°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...230°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/3m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



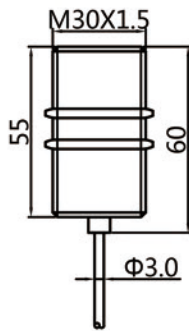


Features :

- M30*1.5mm, Metal housing ;
- 10mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...120°C);
- Cable version



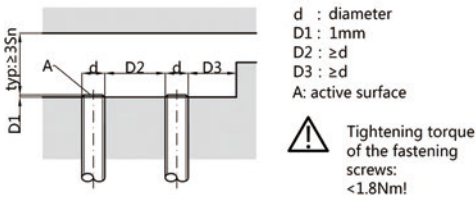
Dimensioned drawing



Model No.

Sensing range	Sn : 10 mm
PNP	BHB-M3010P-V11F2-120
NPN	BHB-M3010N-V11F2-120

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	200Hz/120°C
	Voltage drop	<1.8V
	Load current	150mA/24VDC
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...120°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



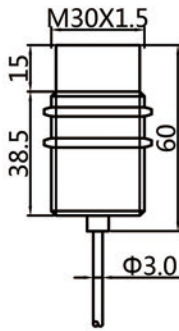


Features :

- M30*1.5mm, Metal housing;
- 15mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...120°C);
- Cable version



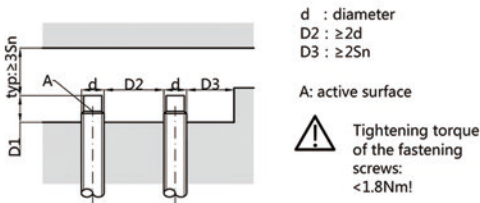
Dimensioned drawing



Model No.

Sensing range	Sn : 15 mm
PNP	BHN-M3015P-V11F2-120
NPN	BHN-M3015N-V11F2-120

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	200Hz/120°C
	Voltage drop	<1.8V
	Load current	150mA/24VDC
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...120°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



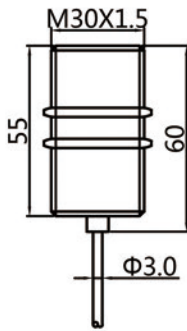


Features :

- M30*1.5mm, Metal housing ;
- 10mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...150°C);
- Cable version



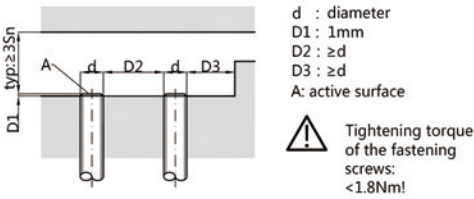
Dimensioned drawing



Model No.

Sensing range	Sn: 10 mm
PNP	BHB-M3010P-V11F2-150EXT
NPN	BHB-M3010N-V11F2-150EXT

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	200Hz/150°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...150°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



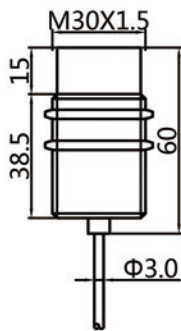


Features :

- M30*1.5mm, Metal housing ;
- 15mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...150°C);
- Cable version



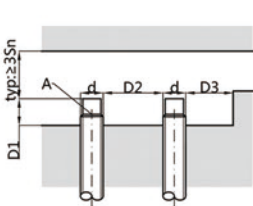
Dimensioned drawing



Model No.

Sensing range	Sn : 15 mm
PNP	BHN-M3015P-V11F2-150EXT
NPN	BHN-M3015N-V11F2-150EXT

Mounting



d : diameter
 D2 : ≥2d
 D3 : ≥25n
 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

Electrical data	Operating voltage	10-30V DC
	Switching frequency	200Hz/150°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...150°C
	Ingress protection	IP66
Mechanical data	Housing material	stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



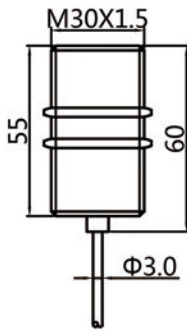


Features :

- M30*1.5mm, Metal housing;
- 10mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...180°C);
- Cable version



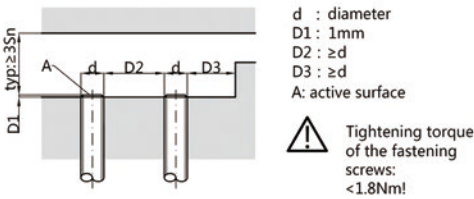
Dimensioned drawing



Model No.

Sensing range	Sn: 10 mm
PNP	BHB-M3010P-V11F2-180EXT
NPN	BHB-M3010N-V11F2-180EXT

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	200Hz/180°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...180°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



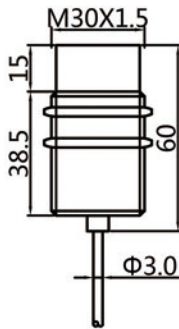


Features :

- M30*1.5 mm, Metal housing ;
- 15mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...180°C);
- Cable version



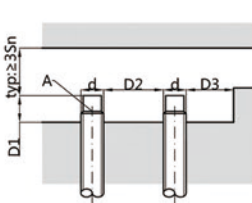
Dimensioned drawing



Model No.

Sensing range	Sn : 15 mm
PNP	BHN-M3015P-V11F2-180EXT
NPN	BHN-M3015N-V11F2-180EXT

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	200Hz/180°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...180°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



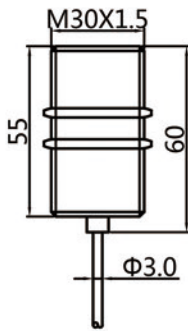


Features :

- M30*1.5mm, Metal housing ;
- 10mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...230°C);
- Cable version



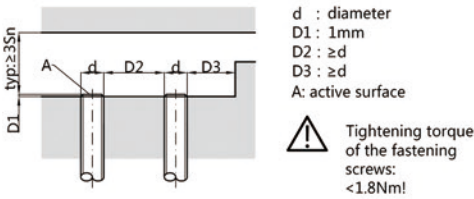
Dimensioned drawing



Model No.

Sensing range	Sn: 10 mm
PNP	BHB-M3010P-V11F3-230EXT
NPN	BHB-M3010N-V11F3-230EXT

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	200Hz/230°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...230°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/3m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



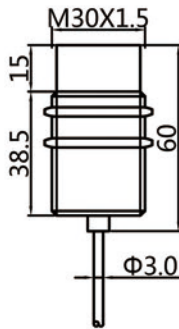


Features :

- M30*1.5mm, Metal housing ;
- 15mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...230°C);
- Cable version



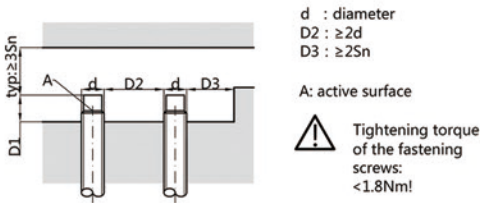
Dimensioned drawing



Mode No.

Sensing range	Sn : 15 mm
PNP	BHN-M3015P-V11F3-230EXT
NPN	BHN-M3015N-V11F3-230EXT

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	200Hz/230°C
	Voltage drop	< 1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	< 3.0%(Sr)
Environment	Ambient temperature	-25...230°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/3m; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



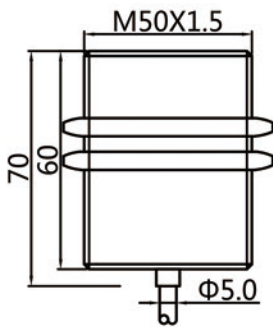


Features :

- M50*1.5 mm, Metal housing;
- 20mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...150°C);
- Cable version



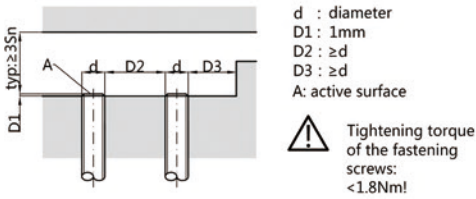
Dimensioned drawing



Model No.

Sensing range	Sn: 20 mm
PNP	BHB-M5020P-V11F2-150EXT
NPN	BHB-M5020N-V11F2-150EXT

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz/150°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...150°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.35mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



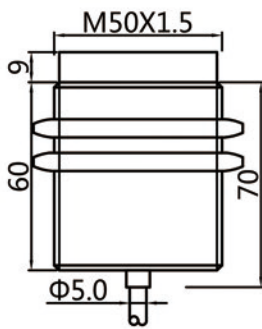


Features :

- M50*1.5 mm, Metal housing ;
- 25mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...150°C);
- Cable version



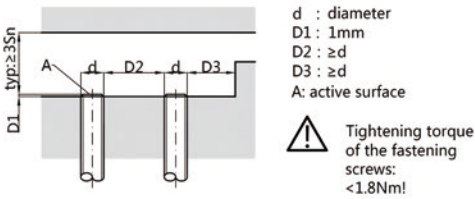
Dimensioned drawing



Model No.

Sensing range	Sn : 25 mm
PNP	BHN-M5025P-V11F2-150EXT
NPN	BHN-M5025N-V11F2-150EXT

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz/150°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...150°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/2m; 3*0.35mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



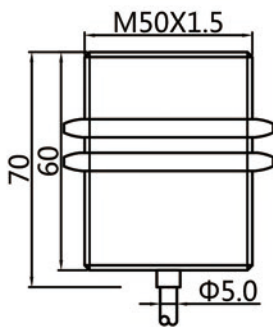


Features :

- M50*1.5 mm, Metal housing ;
- 20mm, flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...230°C);
- Cable version



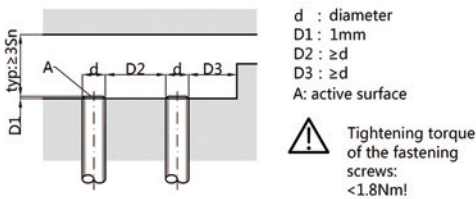
Dimensioned drawing



Model No.

Sensing range	Sn : 20 mm
PNP	BHB-M5020P-V11F3-230EXT
NPN	BHB-M5020N-V11F3-230EXT

Mounting



Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz/230°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...230°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/3m; 3*0.35mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring



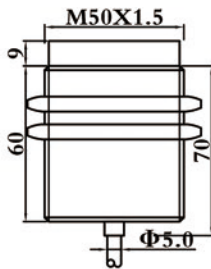


Features :

- M50*1.5 mm, Metal housing;
- 30mm, non-flush mountable;
- DC 3-wire, switching output;
- Withstand High-temperatures(-25...230°C);
- Cable version



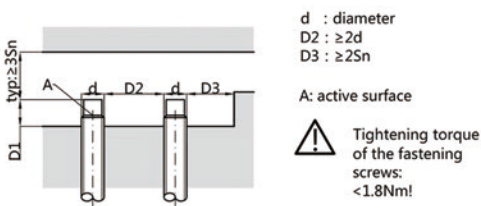
Dimensioned drawing



Model No.

Sensing range	Sn: 30 mm
PNP	BHN-M5030P-V11F3-230EXT
NPN	BHN-M5030N-V11F3-230EXT

Mounting



Installed in the metal	
size D1	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/230°C
	Voltage drop	<1.8V
	Load current	extrapolation
	No load current	< 3mA (24 V)
	Hysteresis	3--15%(Sr)
	Repeatability	<3.0%(Sr)
Environment	Ambient temperature	-25...230°C
	Ingress protection	IP66
Mechanical data	Housing material	Stainless steel
	Face material	PTFE
Electrical connection	Connectors	PTFE cable/3m; 3*0.35mm ²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring



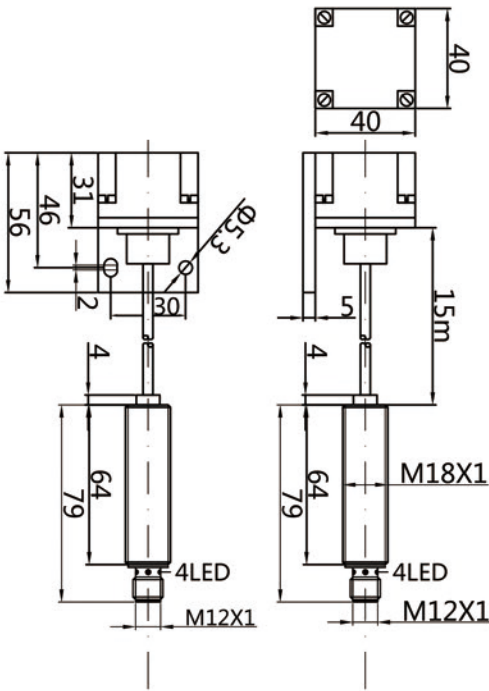


Features :

- Stainless steel housing , 25mm , flush mountable ;
- The sensor element' s temperature range 0...250°C ;
- Between sensor and amplifier' s 3m cable, Metallic shield ;
- Applicable to conveying chain ;
- Move minimum bending radius of 15cm



Dimensioned drawing



Model No.

Sensing range	Sn : 25 mm
PNP N. O.	BHB-Q4025P-F11S12-250EXT
PNP N. C.	BHB-Q4025P-F21S12-250EXT

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	0...20Hz
	Hysteresis	0.3...5 typical value 2%
	Voltage drop	≤ 3V
	Load current	0...200mA
	NO load current	≤ 25mA
Environment	Reliable operating range	0...20mm
	Ambient temperature	0...250°C (273...523K)
Mechanical data	Ingress protection	Amplifier IP67, Sensor IP40
	Short-circuit protection	Pulse
	Switching operating indicator	Yellow LED indicator light
	Attenuation coefficient r_{AI}	0.5
	Attenuation coefficient r_{Cu}	0.5
	Attenuation coefficient r_{V2A}	0.6...1
	Setting angle	AI
	Housing material	Stainless steel (amplifier' s housing) , PTFE/Al/V2A
Electrical connection	Face material	PTFE
	connectors	PFA cable , Stainless steel armoured

Wiring

