

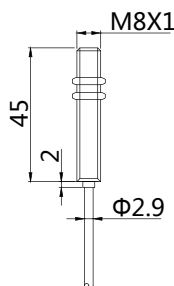


Features:

- M8*1 mm , Stainless steel housing;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Cable



Dimensioned drawing

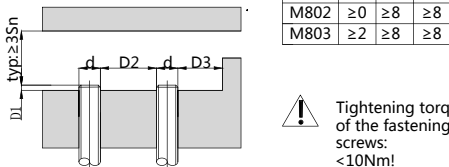


Model No.

Sensing range	Sn:2 mm	Sn:3 mm
NPN N. O	BB-M802N-V11P2	BB-M803N-V11P2
NPN N. C	BB-M802N-V21P2	BB-M803N-V21P2
PNP N. O	BB-M802P-V11P2	BB-M803P-V11P2
PNP N. C	BB-M802P-V21P2	BB-M803P-V21P2

Mounting

(flush/quasi-flush mounting)



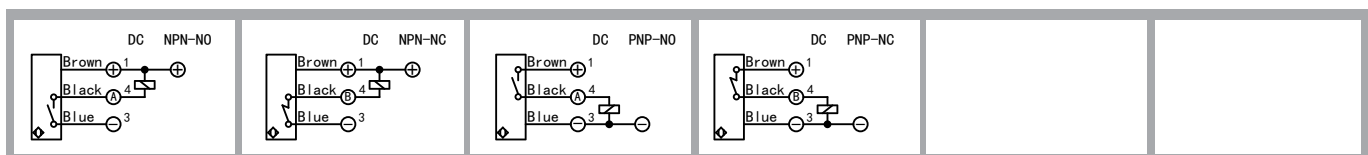
⚠ Tightening torque of the fastening screws: <10Nm!

Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	3000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring



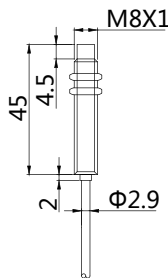


Features:

- M8*1 mm , Stainless steel housing;
- 4/6mm , non-flush mountable;
- DC 3-wire , switching output;
- Cable



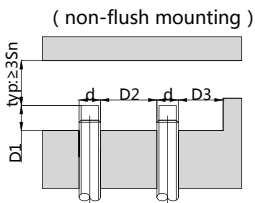
Dimensioned drawing



Model No.

Sensing range	Sn: 4 mm	Sn: 6 mm
NPN N. O	BN-M804N-V11P2	BN-M806N-V11P2
NPN N. C	BN-M804N-V21P2	BN-M806N-V21P2
PNP N. O	BN-M804P-V11P2	BN-M806P-V11P2
PNP N. C	BN-M804P-V21P2	BN-M806P-V21P2

Mounting



Sn	D1	D2	D3
M804	≥8	≥16	≥8
M806	≥8	≥24	≥8

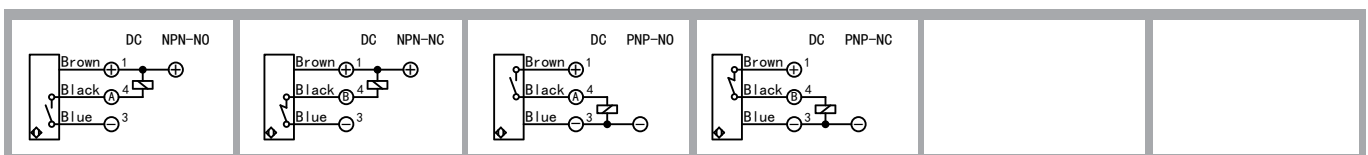
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	1000Hz/500Hz
	Voltage drop	≤2.0V
	Leakge current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring

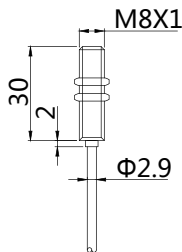


Features:

- M8*1 mm short body , Stainless steel housing;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Cable



Dimensioned drawing

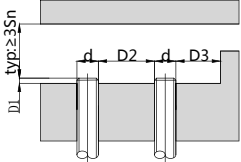


Model No.

Sensing range	Sn: 2 mm	Sn: 3 mm
NPN N. O	BB-M802N-V11P2-S	BB-M803N-V11P2-S
NPN N. C	BB-M802N-V21P2-S	BB-M803N-V21P2-S
PNP N. O	BB-M802P-V11P2-S	BB-M803P-V11P2-S
PNP N. C	BB-M802P-V21P2-S	BB-M803P-V21P2-S

Mounting

(flush/quasi-flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8
M803	≥2	≥8	≥8

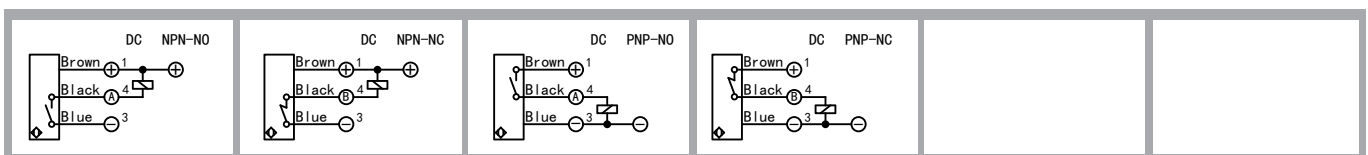
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	Factor
Nav-ferrous metal	1
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	2000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring



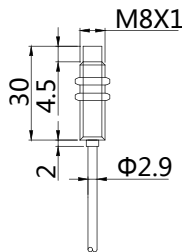


Features:

- M8*1 mm short body , Stainless steel housing;
- 4/6mm , non-flush mountable;
- DC 3-wire , switching output;
- Cable



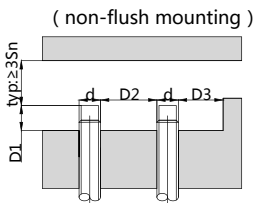
Dimensioned drawing



Model No.

Sensing range	Sn:4 mm	Sn:6 mm
NPN N. O	BN-M804N-V11P2-S	BN-M806N-V11P2-S
NPN N. C	BN-M804N-V21P2-S	BN-M806N-V21P2-S
PNP N. O	BN-M804P-V11P2-S	BN-M806P-V11P2-S
PNP N. C	BN-M804P-V21P2-S	BN-M806P-V21P2-S

Mounting



Sn	D1	D2	D3
M804	≥8	≥16	≥8
M806	≥8	≥24	≥8

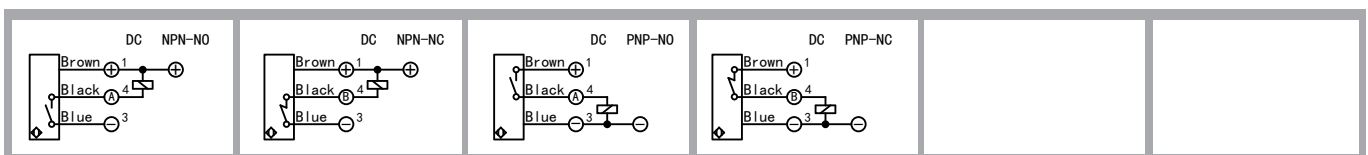
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	1000Hz/500Hz
	Voltage drop	≤2.0V
	Leakge current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm ²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring

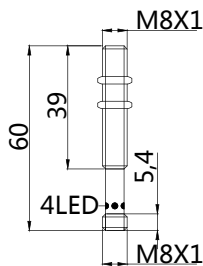


Features:

- M8*1 mm , Stainless steel housing;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Connector versions

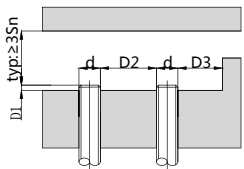


Dimensioned drawing



Mounting

(flush/quasi-flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8
M803	≥2	≥8	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

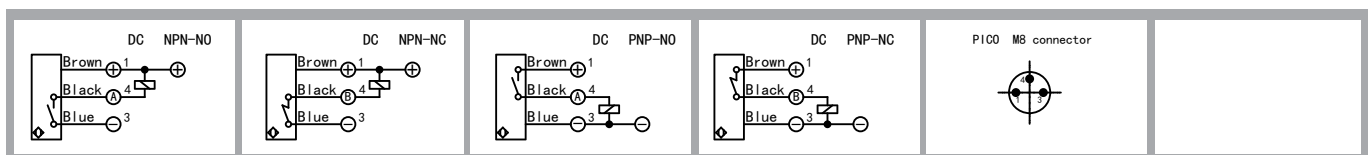
Model No.

Sensing range	Sn:2 mm	Sn:3 mm
NPN N.O	BB-M802N-V11S8	BB-M803N-V11S8
NPN N.C	BB-M802N-V21S8	BB-M803N-V21S8
PNP N.O	BB-M802P-V11S8	BB-M803P-V11S8
PNP N.C	BB-M802P-V21S8	BB-M803P-V21S8

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	3000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring

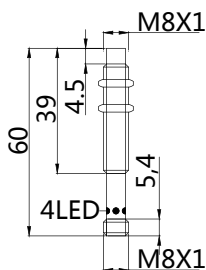


Features:

- M8*1 mm , Stainless steel housing;
- 4/6mm , non-flush mountable;
- DC 3-wire , switching output;
- Connector versions

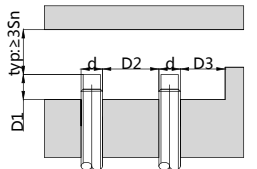


Dimensioned drawing



Mounting

(non-flush mounting)



Sn	D1	D2	D3
M804	≥8	≥16	≥8
M806	≥8	≥24	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

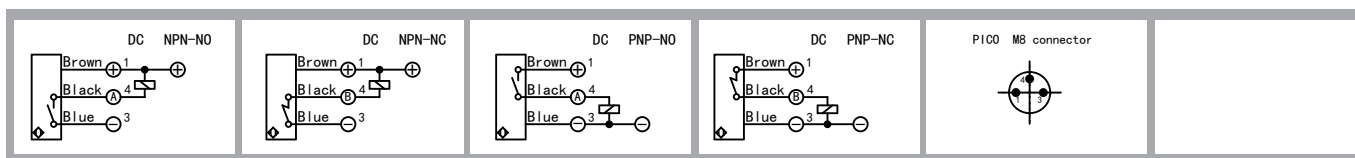
Model No.

Sensing range	Sn: 4 mm	Sn: 6 mm
NPN N. O	BN-M804N-V11S8	BN-M806N-V11S8
NPN N. C	BN-M804N-V21S8	BN-M806N-V21S8
PNP N. O	BN-M804P-V11S8	BN-M806P-V11S8
PNP N. C	BN-M804P-V21S8	BN-M806P-V21S8

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	1000Hz/500Hz
	Voltage drop	≤2.0V
	Leakge current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring

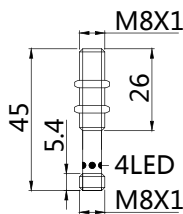


Features:

- M8*1 mm short body , Stainless steel housing;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Connector versions



Dimensioned drawing

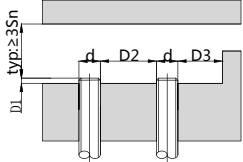


Model No.

Sensing range	Sn: 2 mm	Sn: 3 mm
NPN N. O	BB-M802N-V11S8-S	BB-M803N-V11S8-S
NPN N. C	BB-M802N-V21S8-S	BB-M803N-V21S8-S
PNP N. O	BB-M802P-V11S8-S	BB-M803P-V11S8-S
PNP N. C	BB-M802P-V21S8-S	BB-M803P-V21S8-S

Mounting

(flush/quasi-flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8
M803	≥2	≥8	≥8

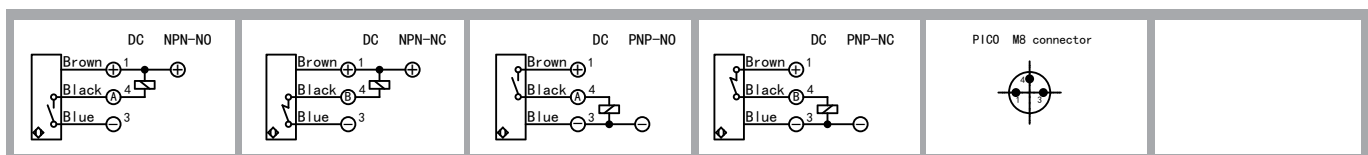
⚠ Tightening torque of the fastening screws: <10Nm!

Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	2000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring

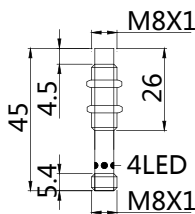


Features:

- M8*1 mm short body , Stainless steel housing;
- 4/6mm , non-flush mountable;
- DC 3-wire , switching output;
- Connector versions



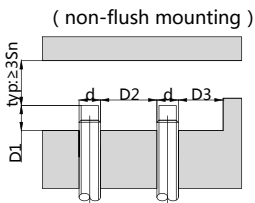
Dimensioned drawing



Model No.

Sensing range	Sn:4 mm	Sn:6 mm
NPN N. O	BN-M804N-V11S8-S	BN-M806N-V11S8-S
NPN N. C	BN-M804N-V21S8-S	BN-M806N-V21S8-S
PNP N. O	BN-M804P-V11S8-S	BN-M806P-V11S8-S
PNP N. C	BN-M804P-V21S8-S	BN-M806P-V21S8-S

Mounting



Sn	D1	D2	D3
M804	≥8	≥16	≥8
M806	≥8	≥24	≥8

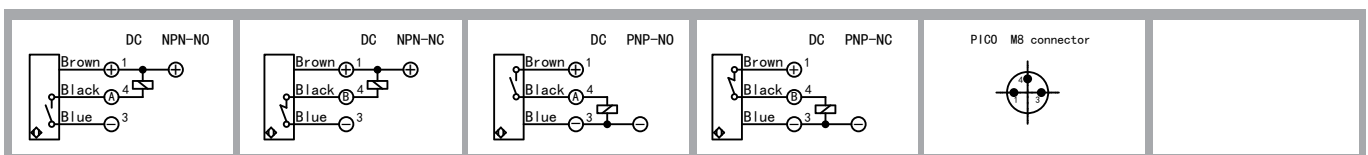
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Non-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	1000Hz/500Hz
	Voltage drop	≤2.0V
	Leakge current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring

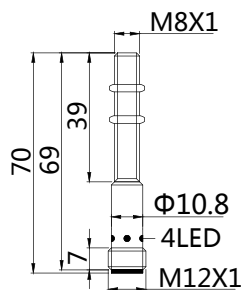


Features:

- M8*1 mm , Brass,nickel-plated housing;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Connector versions



Dimensioned drawing

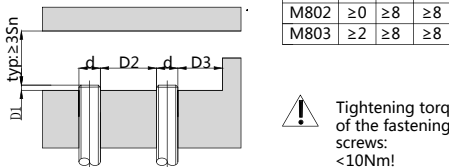


Model No.

Sensing range	Sn: 2 mm	Sn: 3 mm
NPN N. O	BB-M802N-C11S12	BB-M803N-C11S12
NPN N. C	BB-M802N-C21S12	BB-M803N-C21S12
PNP N. O	BB-M802P-C11S12	BB-M803P-C11S12
PNP N. C	BB-M802P-C21S12	BB-M803P-C21S12

Mounting

(flush/quasi-flush mounting)



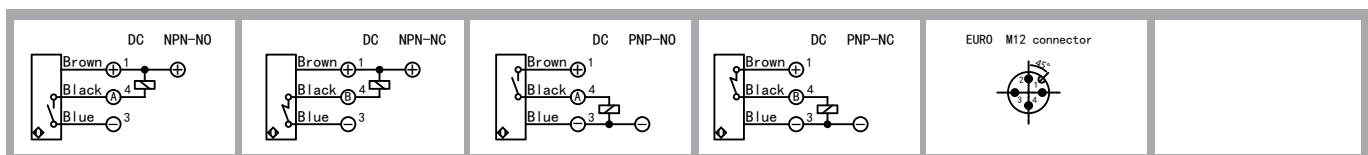
⚠ Tightening torque of the fastening screws: <10Nm!

Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	3000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Brass,nickel-plated
	Face material	POM
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

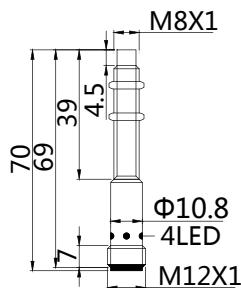


Features:

- M8*1 mm , Brass,nickel-plated housing;
- 4/6mm , non-flush mountable;
- DC 3-wire , switching output;
- Connector versions



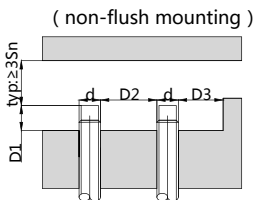
Dimensioned drawing



Model No.

Sensing range	Sn:4 mm	Sn:6 mm
NPN N. O	BN-M804N-C11S12	BN-M806N-C11S12
NPN N. C	BN-M804N-C21S12	BN-M806N-C21S12
PNP N. O	BN-M804P-C11S12	BN-M806P-C11S12
PNP N. C	BN-M804P-C21S12	BN-M806P-C21S12

Mounting



Sn	D1	D2	D3
M804	≥8	≥16	≥8
M806	≥8	≥24	≥8

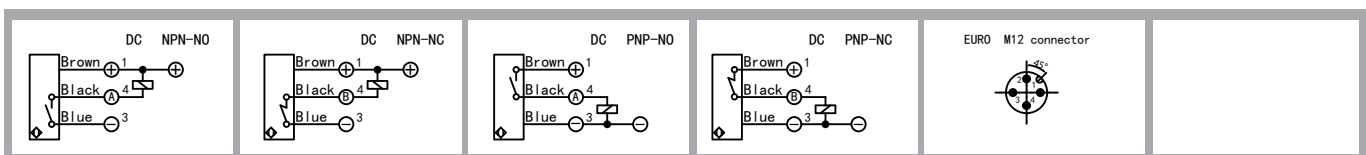
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	1000Hz/500Hz
	Voltage drop	≤2.0V
	Leakge current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Brass,nickel-plated
	Face material	POM
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

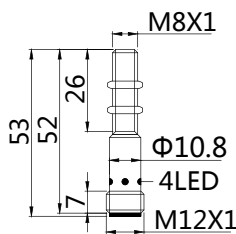


Features:

- M8*1 mm short body , Brass,nickel-plated housing;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Connector versions



Dimensioned drawing

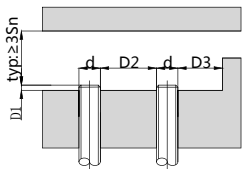


Model No.

Sensing range	Sn: 2 mm	Sn: 3 mm
NPN N. O	BB-M802N-C11S12-S	BB-M803N-C11S12-S
NPN N. C	BB-M802N-C21S12-S	BB-M803N-C21S12-S
PNP N. O	BB-M802P-C11S12-S	BB-M803P-C11S12-S
PNP N. C	BB-M802P-C21S12-S	BB-M803P-C21S12-S

Mounting

(flush/quasi-flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8
M803	≥2	≥8	≥8

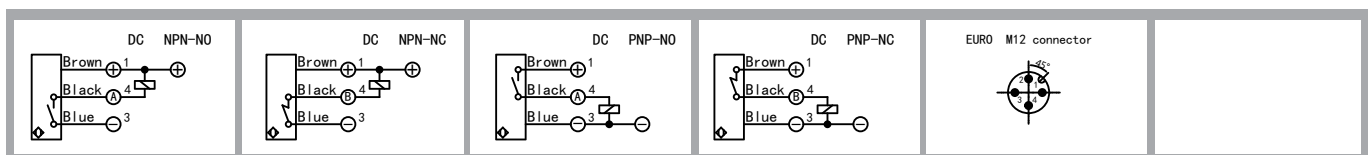
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	2000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Brass,nickel-plated
	Face material	POM
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

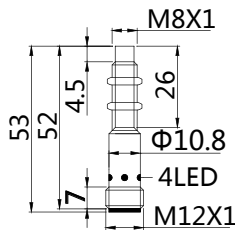


Features:

- M8*1 mm short body , Brass,nickel-plated housing;
- 4/6mm , non-flush mountable;
- DC 3-wire , switching output;
- Connector versions



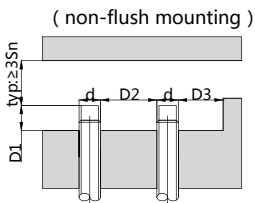
Dimensioned drawing



Model No.

Sensing range	Sn:4 mm	Sn:6 mm
NPN N. O	BN-M804N-C11S12-S	BN-M806N-C11S12-S
NPN N. C	BN-M804N-C21S12-S	BN-M806N-C21S12-S
PNP N. O	BN-M804P-C11S12-S	BN-M806P-C11S12-S
PNP N. C	BN-M804P-C21S12-S	BN-M806P-C21S12-S

Mounting



Sn	D1	D2	D3
M804	≥8	≥16	≥8
M806	≥8	≥24	≥8

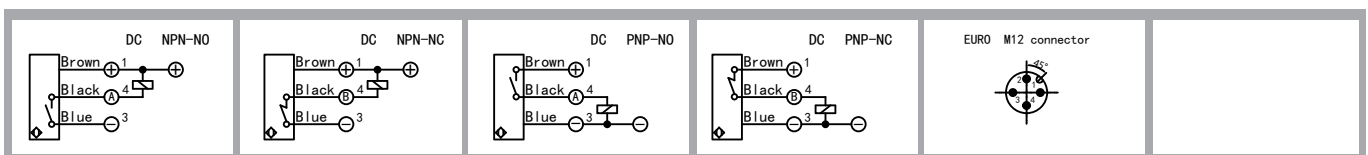
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	1000Hz/500Hz
	Voltage drop	≤2.0V
	Leakge current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Brass,nickel-plated
	Face material	POM
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring



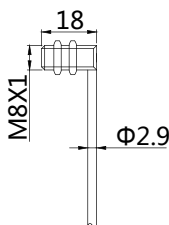


Features:

- M8*1 mm , Stainless steel housing;
- The shortest body , compact construction;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Cable



Dimensioned drawing

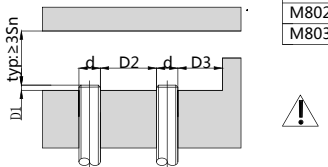


Model No.

Sensing range	Sn:2 mm	Sn:3 mm
NPN N.O	BB-M802N-V11P2-T	BB-M803N-V11P2-T
NPN N.C	BB-M802N-V21P2-T	BB-M803N-V21P2-T
PNP N.O	BB-M802P-V11P2-T	BB-M803P-V11P2-T
PNP N.C	BB-M802P-V21P2-T	BB-M803P-V21P2-T

Mounting

(flush/quasi-flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8
M803	≥2	≥8	≥8

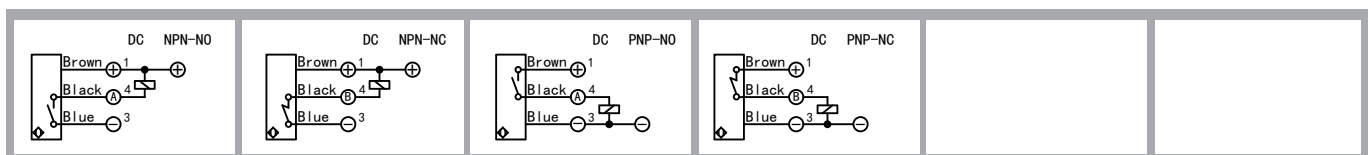
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Non-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	2000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
Overload protection	Yes	
Polarity reversal protection	Yes	
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring

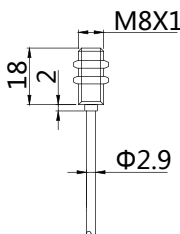


Features:

- M8*1 mm , Stainless steel housing;
- The shortest body , compact construction;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Cable

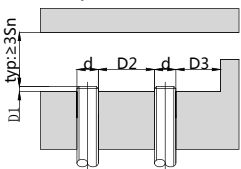


Dimensioned drawing



Mounting

(flush/quasi-flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8
M803	≥2	≥8	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

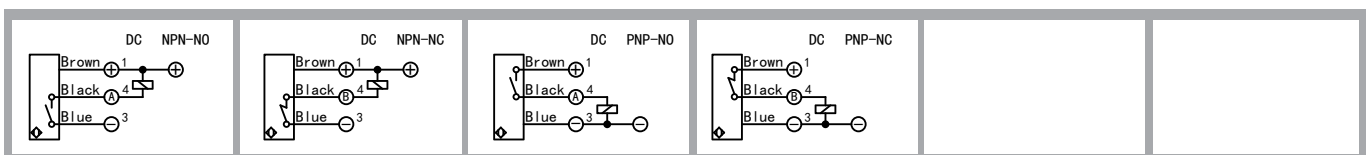
Model No.

Sensing range	Sn: 2 mm	Sn: 3 mm
NPN N. O	BB-M802N-V11P2-R	BB-M803N-V11P2-R
NPN N. C	BB-M802N-V21P2-R	BB-M803N-V21P2-R
PNP N. O	BB-M802P-V11P2-R	BB-M803P-V11P2-R
PNP N. C	BB-M802P-V21P2-R	BB-M803P-V21P2-R

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	2000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakge current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
Overload protection	Yes	
Polarity reversal protection	Yes	
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring

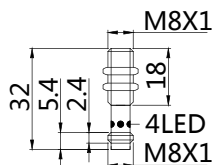


Features:

- M8*1 mm , Stainless steel housing;
- The shortest body , compact construction;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Connector versions



Dimensioned drawing

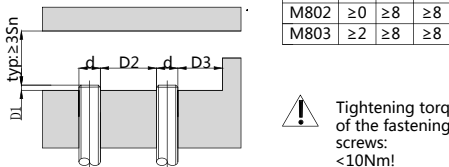


Model No.

Sensing range	Sn:2 mm	Sn:3 mm
NPN N. O	BB-M802N-V11S8-R	BB-M803N-V11S8-R
NPN N. C	BB-M802N-V21S8-R	BB-M803N-V21S8-R
PNP N. O	BB-M802P-V11S8-R	BB-M803P-V11S8-R
PNP N. C	BB-M802P-V21S8-R	BB-M803P-V21S8-R

Mounting

(flush/quasi-flush mounting)



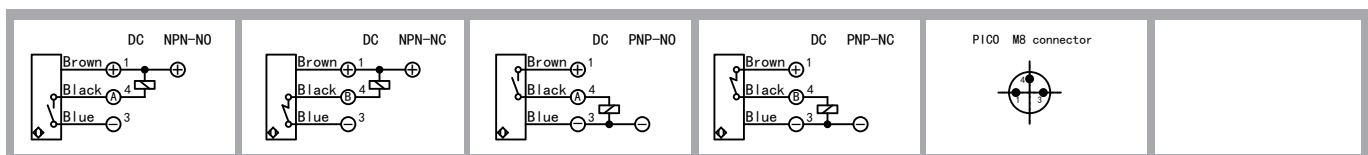
⚠ Tightening torque of the fastening screws: <10Nm!

Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	2000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring



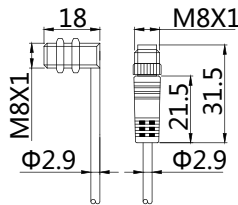


Features:

- M8*1 mm , Stainless steel housing;
- The shortest body , compact construction;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Cable & pigtail versions

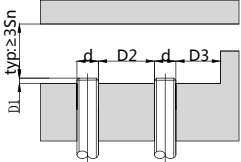


Dimensioned drawing



Mounting

(flush/quasi-flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8
M803	≥2	≥8	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

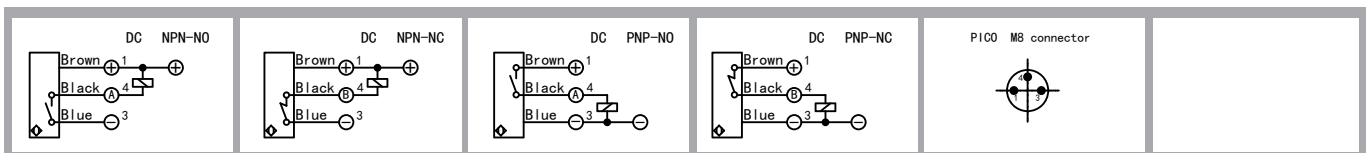
Model No.

Sensing range	Sn:2 mm	Sn:3 mm
NPN N. O	BB-M802N-V11Z8-T	BB-M803N-V11Z8-T
NPN N. C	BB-M802N-V21Z8-T	BB-M803N-V21Z8-T
PNP N. O	BB-M802P-V11Z8-T	BB-M803P-V11Z8-T
PNP N. C	BB-M802P-V21Z8-T	BB-M803P-V21Z8-T

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	2000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
Overload protection	Yes	
Polarity reversal protection	Yes	
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/0.3m ; 3*0.18mm ² With M8 connector
	Accessories	Accessories B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring



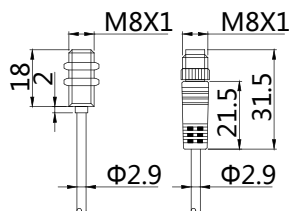


Features:

- M8*1 mm , Stainless steel housing;
- The shortest body , compact construction;
- 2/3mm , flush/quasi-flush mountable;
- DC 3-wire , switching output;
- Cable & pigtail versions

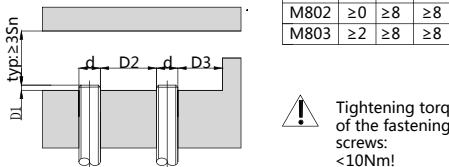


Dimensioned drawing



Mounting

(flush/quasi-flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8
M803	≥2	≥8	≥8

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

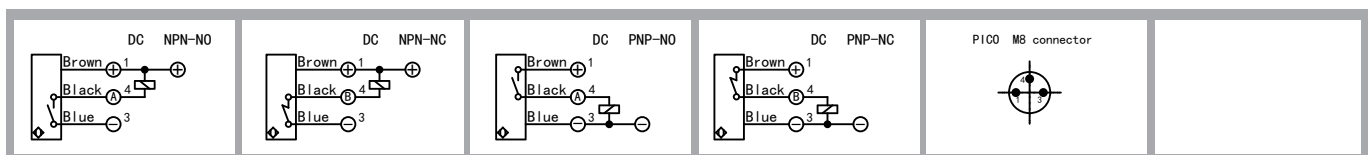
Model No.

Sensing range	Sn:2 mm	Sn:3 mm
NPN N. O	BB-M802N-V11Z8-R	BB-M803N-V11Z8-R
NPN N. C	BB-M802N-V21Z8-R	BB-M803N-V21Z8-R
PNP N. O	BB-M802P-V11Z8-R	BB-M803P-V11Z8-R
PNP N. C	BB-M802P-V21Z8-R	BB-M803P-V21Z8-R

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	2000Hz/1000Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/0.3m ; 3*0.18mm ² With M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring



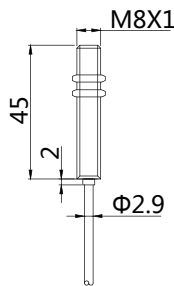


Features:

- M8*1 mm , Stainless steel housing;
- 2mm , flush mountable;
- DC 2-wire , switching output;
- Cable



Dimensioned drawing

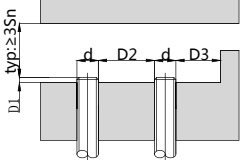


Model No.

Sensing range	Sn : 2 mm
N. O	BB-M802C-V13P2
N. C	BB-M802C-V23P2

Mounting

(flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-60V DC
	Switching frequency	1000Hz
	Voltage drop	≤4.5V
	Load current	100mA
	Leakge current	≤0.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
Environment	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Stainless steel
Electrical connection	Face material	POM
	Connectors	PVC cable/2m ; 2*0.25mm ²
Accessories	Accessories	NO

(to be ordered separately)

Wiring



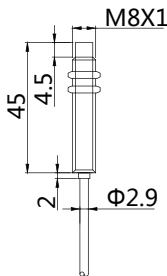


Features:

- M8*1 mm , Stainless steel housing;
- 4mm , non-flush mountable;
- DC 2-wire , switching output;
- Cable



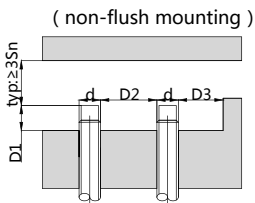
Dimensioned drawing



Model No.

Sensing range	Sn: 4 mm
N. O	BN-M804C-V13P2
N. C	BN-M804C-V23P2

Mounting



Sn	D1	D2	D3
M804	≥8	≥16	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Non-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-60V DC
	Switching frequency	500Hz
	Voltage drop	≤4.5V
	Load current	100mA
	Leakge current	≤0.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
Environment	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Stainless steel
Electrical connection	Face material	POM
	Connectors	PVC cable/2m,3*0.25mm ²
Accessories	Accessories	NO

(to be ordered separately)

Wiring

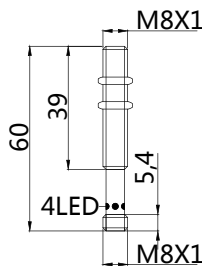


Features:

- M8*1 mm , Stainless steel housing;
- 2mm , flush mountable;
- DC 2-wire , switching output;
- Connector versions



Dimensioned drawing

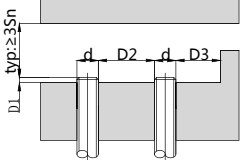


Model No.

Sensing range	Sn : 2 mm
N. O	BB-M802C-V13S8
N. C	BB-M802C-V23S8

Mounting

(flush mounting)



Sn	D1	D2	D3
M802	≥0	≥8	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-60V DC
	Switching frequency	1000Hz
	Voltage drop	≤4.5V
	Load current	100mA
	Leakge current	≤0.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
Environment	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Stainless steel
Electrical connection	Face material	POM
	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring

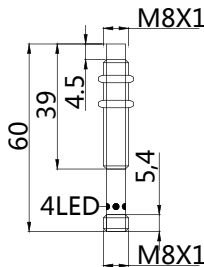


Features:

- M8*1 mm , Stainless steel housing;
- 4mm , non-flush mountable;
- DC 2-wire , switching output;
- Connector versions

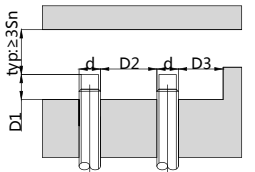


Dimensioned drawing



Mounting

(non-flush mounting)



Sn	D1	D2	D3
M804	≥8	≥16	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Non-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

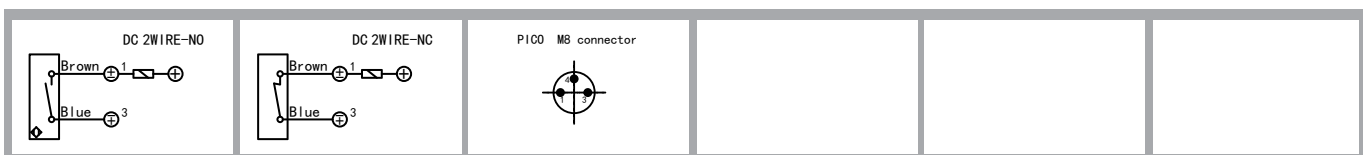
Model No.

Sensing range	Sn: 4 mm
N. O	BN-M804C-V13S8
N. C	BN-M804C-V23S8

Technical data

Electrical data	Operating voltage	10-60V DC
	Switching frequency	500Hz
	Voltage drop	≤4.5V
	Load current	100mA
	Leakge current	≤0.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
Environment	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Stainless steel
Electrical connection	Face material	POM
	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2
	(to be ordered separately)	

Wiring

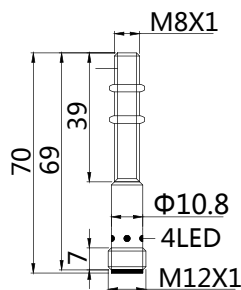


Features:

- M8*1 mm , Brass,nickel-plated housing;
- 2mm , flush mountable;
- DC 2-wire , switching output;
- Connector versions



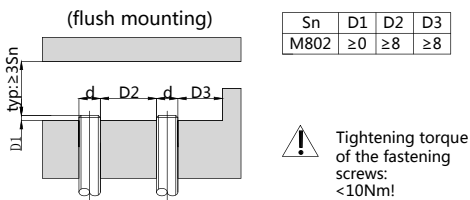
Dimensioned drawing



Model No.

Sensing range	Sn:2 mm
N. O	BB-M802C-C13S12
N. C	BB-M802C-C23S12

Mounting



Sn	D1	D2	D3
M802	≥0	≥8	≥8

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-60V DC
	Switching frequency	1000Hz
	Voltage drop	≤4.5V
	Load current	100mA
	Leakge current	≤0.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
Environment	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Brass,nickel-plated
Electrical connection	Face material	POM
	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

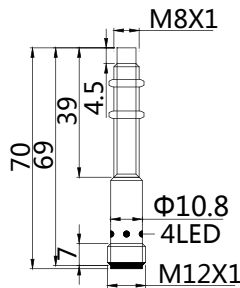


Features:

- M8*1 mm , Brass,nickel-plated housing;
- 4mm , non-flush mountable;
- DC 2-wire , switching output;
- Connector versions



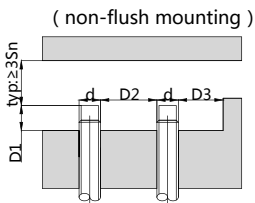
Dimensioned drawing



Model No.

Sensing range	Sn:4 mm
N. O	BN-M804C-C13S12
N. C	BN-M804C-C23S12

Mounting



Sn	D1	D2	D3
M804	≥8	≥16	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Non-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-60V DC
	Switching frequency	500Hz
	Voltage drop	≤4.5V
	Load current	100mA
	Leakge current	≤0.5mA
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
Environment	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Brass,nickel-plated
Electrical connection	Face material	POM
	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2
	(to be ordered separately)	

Wiring

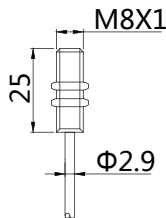


Features:

- M8*1 mm , Stainless steel housing;
- 1mm , flush mountable;
- NAMUR DC 2-wire , switching output;
- Cable



Dimensioned drawing



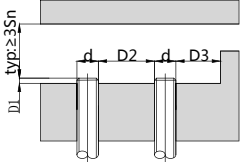
Model No.

Sensing range	Sn:1 mm
N. 0	BB-M801NA-V10P2

Mounting

(flush/quasi-flush mounting)

Sn	D1	D2	D3
M801	≥0	≥8	≥8



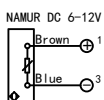
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	6-12V DC
	Switching frequency	2000Hz
	Leakge current	>2.2mA(OFF), <1.1mA(ON)
	Hysteresis	<15%(Sr)
	Repeatability	<2.0%(Sr)
	Power-up delay	≤10ms
	Temperature drift	<10%(Sr)
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/2m ; 2*0.25mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring

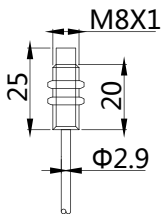


Features :

- M8*1 mm , Stainless steel housing;
- 2mm , non-flush mountable;
- NAMUR DC 2-wire , switching output;
- Cable



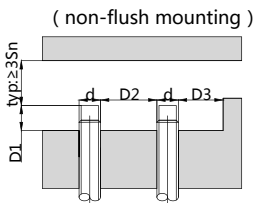
Dimensioned drawing



Model No.

Sensing range	Sn:2 mm
N. 0	BN-M802NA-V10P2

Mounting



Sn	D1	D2	D3
M802	≥6	≥16	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	6-12V DC
	Switching frequency	1000Hz
	Leakge current	>2.2mA(OFF), <1.1mA(ON)
	Hysteresis	<15%(Sr)
	Repeatability	<2.0%(Sr)
	Power-up delay	≤10ms
	Temperature drift	<10%(Sr)
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PVC cable/2m ; 2*0.25mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring

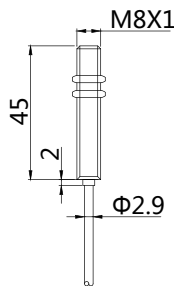


Features:

- M8*1 mm , Full stainless steel housing;
- 2mm , flush mountable;
- DC 3-wire , switching output;
- Cable



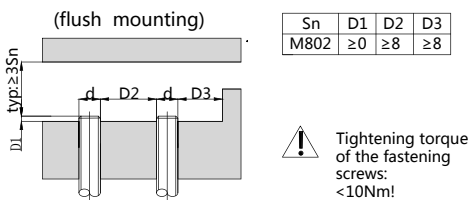
Dimensioned drawing



Model No.

Sensing range	Sn: 2 mm
NPN N. O	BFB-M802N-V11P2
NPN N. C	BFB-M802N-V21P2
PNP N. O	BFB-M802P-V11P2
PNP N. C	BFB-M802P-V21P2

Mounting

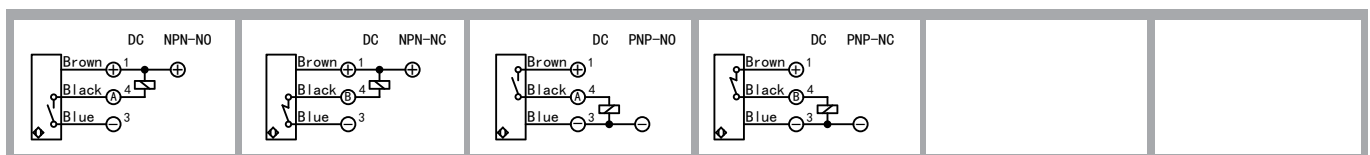


Correction Factor	Factor
Nav-ferrous metal	1
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
Overload protection	Yes	
Polarity reversal protection	Yes	
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	Stainless steel
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm ²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring

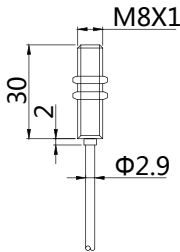


Features :

- M8*1 mm , Full stainless steel housing;
- Short body,compact construction;
- 2mm , flush mountable;
- DC 3-wire , switching output;
- Cable



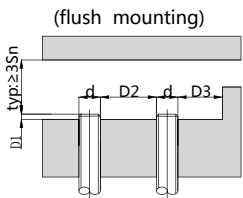
Dimensioned drawing



Model No.

Sensing range	Sn:2 mm
NPN N. O	BFB-M802N-V11P2-S
NPN N. C	BFB-M802N-V21P2-S
PNP N. O	BFB-M802P-V11P2-S
PNP N. C	BFB-M802P-V21P2-S

Mounting



Sn	D1	D2	D3
M802	≥0	≥8	≥8

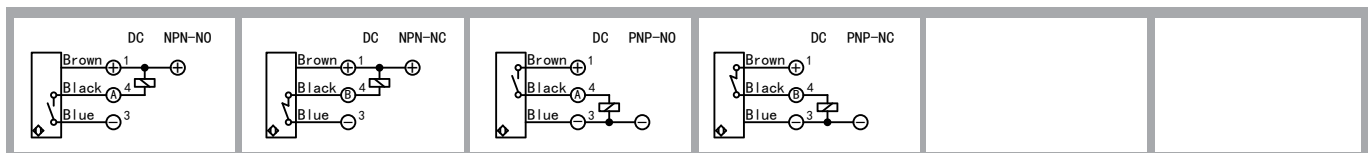
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	≤2.0V
	Leakge current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
Overload protection	Yes	
Polarity reversal protection	Yes	
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	Stainless steel
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm ²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring

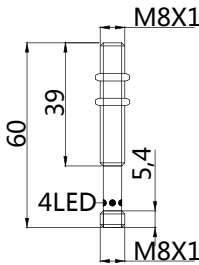


Features:

- M8*1 mm , Full stainless steel housing;
- 2mm , flush mountable;
- DC 3-wire , switching output;
- Connector versions



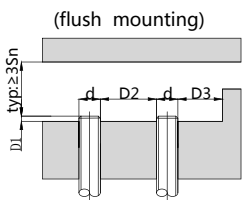
Dimensioned drawing



Model No.

Sensing range	Sn:2 mm
NPN N. O	BFB-M802N-V11S8
NPN N. C	BFB-M802N-V21S8
PNP N. O	BFB-M802P-V11S8
PNP N. C	BFB-M802P-V21S8

Mounting



Sn	D1	D2	D3
M802	≥0	≥8	≥8

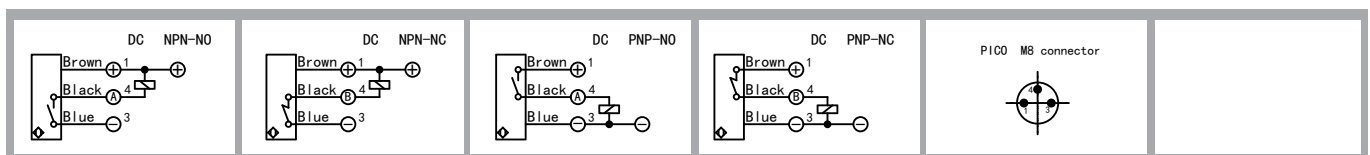
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
Overload protection	Yes	
Polarity reversal protection	Yes	
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	Stainless steel
Electrical connection	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2
		(to be ordered separately)

Wiring

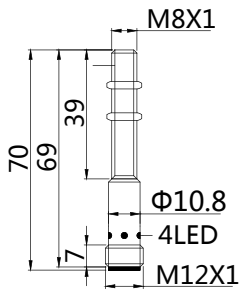


Features:

- M8*1 mm , Full stainless steel housing;
- 2mm , flush mountable;
- DC 3-wire , switching output;
- Connector versions



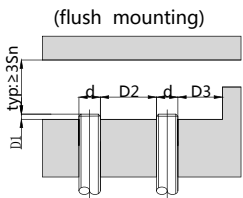
Dimensioned drawing



Model No.

Sensing range	Sn:2 mm
NPN N. O	BFB-M802N-V11S12
NPN N. C	BFB-M802N-V21S12
PNP N. O	BFB-M802P-V11S12
PNP N. C	BFB-M802P-V21S12

Mounting



Sn	D1	D2	D3
M802	≥0	≥8	≥8

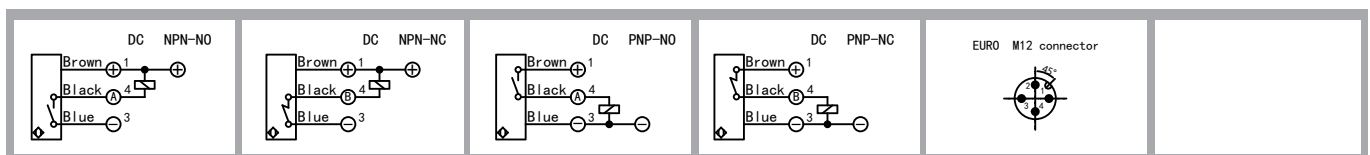
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	Factor
Nav-ferrous metal	1
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	Stainless steel
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring

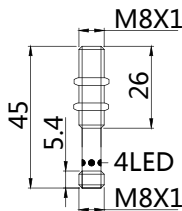


Features :

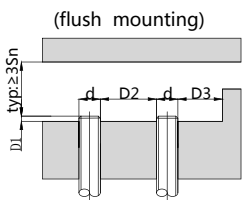
- M8*1 mm , Full stainless steel housing;
- The shortest body , compact construction;
- 2mm , flush mountable;
- DC 3-wire , switching output;
- Connector versions



Dimensioned drawing



Mounting



Sn	D1	D2	D3
M802	≥0	≥8	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

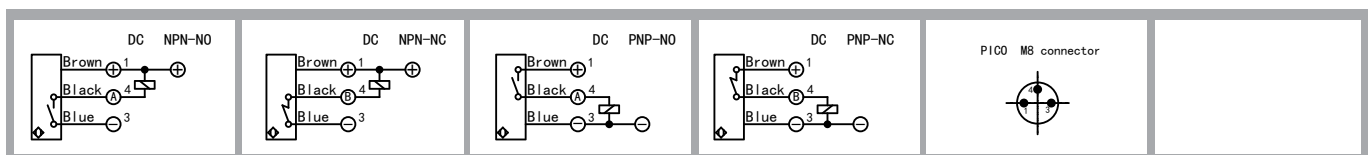
Model No.

Sensing range	Sn:2 mm
NPN N. O	BFB-M802N-V11S8-S
NPN N. C	BFB-M802N-V21S8-S
PNP N. O	BFB-M802P-V11S8-S
PNP N. C	BFB-M802P-V21S8-S

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	≤2.0V
	Leakge current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
Overload protection	Yes	
Polarity reversal protection	Yes	
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	Stainless steel
Electrical connection	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2
		(to be ordered separately)

Wiring

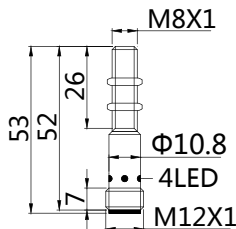


Features:

- M8*1 mm , Full stainless steel housing;
- The shortest body , compact construction;
- 2mm , flush mountable;
- DC 3-wire , switching output;
- Connector versions



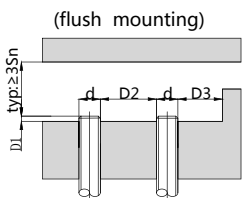
Dimensioned drawing



Model No.

Sensing range	Sn:2 mm
NPN N. O	BFB-M802N-V11S12-S
NPN N. C	BFB-M802N-V21S12-S
PNP N. O	BFB-M802P-V11S12-S
PNP N. C	BFB-M802P-V21S12-S

Mounting



Sn	D1	D2	D3
M802	≥0	≥8	≥8

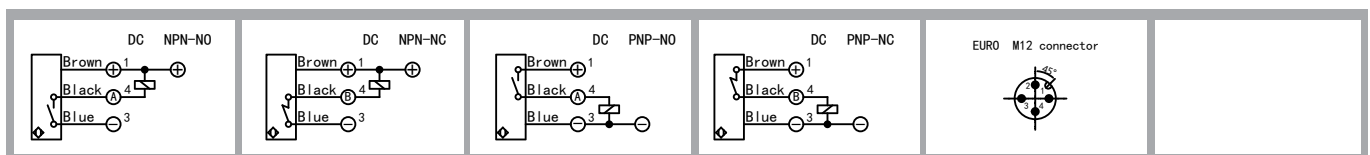
⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	100Hz
	Voltage drop	≤2.0V
	Leakage current	<0.01mA
	Load current	100mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-25...70°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	Stainless steel
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2 (to be ordered separately)

Wiring



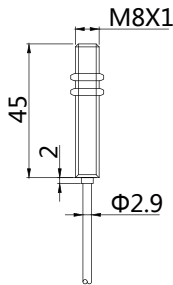


Features:

- M8*1 mm , Brass,nickel-plated housing;
- 0.1-1.5mm , flush mountable;
- DC 3-wire , analog output;
- Cable



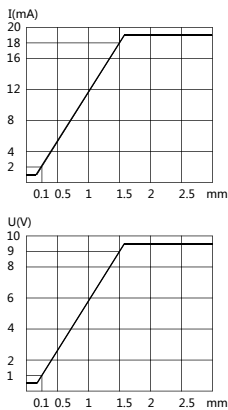
Dimensioned drawing



Model No.

Sensing range	Sn:0.1-1.5 mm
0-20mA	BAB-M81.5-CI2P2
0-10V	BAB-M81.5-CV2P2

Deviation curve



Technical data

Electrical data	Operating voltage	18-30V DC
	Switching frequency	100Hz
	Output function	0-20mA;<400Ω/0-10VDC;>2000Ω
	Load current	<35mA
	Drift	<10%(Sr)
	Repeatability	<2%(Sr)
	Linearity	<5%(Sr)
	Short circuit protection	Yes
Environment	Overload protection	Yes
	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Brass,nickel-plated
	Face material	PBT
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring

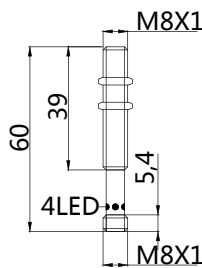


Features:

- M8*1 mm , Brass,nickel-plated housing;
- 0.1-1.5mm , flush mountable;
- DC 3-wire , analog output;
- Connector versions



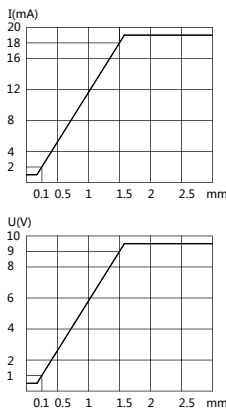
Dimensioned drawing



Model No.

Sensing range	Sn:0.1-1.5 mm
0-20mA	BAB-M81.5-C12S8
0-10V	BAB-M81.5-CV2S8

Deviation curve



Technical data

Electrical data	Operating voltage	18-30V DC
	Switching frequency	100Hz
	Output function	0-20mA;<400Ω/0-10VDC;>2000Ω
	Load current	<35mA
	Temperature drift	<10%(Sr)
	Repeatability	<2%(Sr)
	Linearity	<5%(Sr)
	Short circuit protection	Yes
Environment	Overload protection	Yes
	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Brass,nickel-plated
Electrical connection	Face material	PBT
	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2
	(to be ordered separately)	

Wiring



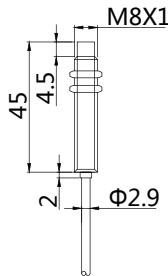


Features:

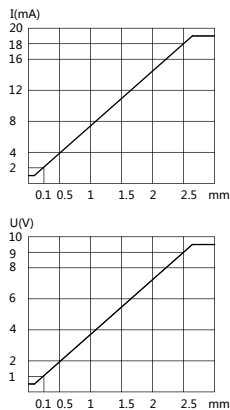
- M8*1 mm , Brass,nickel-plated housing;
- 0.1-2.5mm , non-flush mountable;
- DC 3-wire , analog output;
- Cable



Dimensioned drawing



Deviation curve



Model No.

Sensing range	Sn:0.1-2.5 mm
0-20mA	BAN-M82.5-C12P2
0-10V	BAN-M82.5-CV2P2

Technical data

Electrical data	Operating voltage	18-30V DC
	Switching frequency	100Hz
	Output function	0-20mA;<400Ω/0-10VDC;>2000Ω
	Load current	<35mA
	Temperature drift	<10%(Sr)
	Repeatability	<2%(Sr)
	Linearity	<5%(Sr)
	Short circuit protection	Yes
Environment	Overload protection	Yes
	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Brass,nickel-plated
	Face material	PBT
Electrical connection	Connectors	PVC cable/2m ; 3*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring

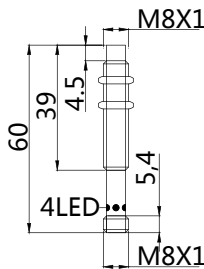


Features:

- M8*1 mm , Brass,nickel-plated housing;
- 0.1-2.5mm , non-flush mountable;
- DC 3-wire , analog output;
- Connector versions



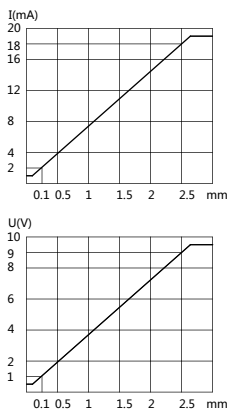
Dimensioned drawing



Model No.

Sensing range	Sn:0.1–2.5 mm
0–20mA	BAN-M82.5-C12S8
0–10V	BAN-M82.5-CV2S8

Deviation curve



Technical data

Electrical data	Operating voltage	18-30V DC
	Switching frequency	100Hz
	Output function	0-20mA;<400Ω/0-10VDC;>2000Ω
	Load current	<35mA
	Temperature drift	<10%(Sr)
	Repeatability	<2%(Sr)
	Linearity	<5%(Sr)
	Short circuit protection	Yes
Environment	Overload protection	Yes
	Polarity reversal protection	Yes
	Ambient temperature	-25...70°C
Mechanical data	Ingress protection	IP67
	Housing material	Brass,nickel-plated
Electrical connection	Face material	PBT
	Connectors	M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring



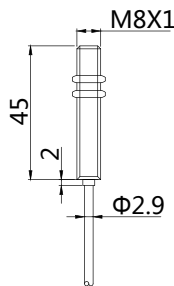


Features:

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



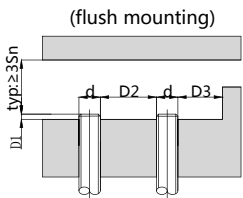
Dimensioned drawing



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



Sn	D1	D2	D3
M802	≥0	≥8	≥8

⚠ Tightening torque of the fastening screws: <10Nm!

Correction Factor	
Nav-ferrous metal	Factor
Fe360	1
Aluminum	0.35~0.45
Brass	0.35~0.5
Copper	0.25~0.45
Stainless steel	0.6~1.0
Cast Iron	0.93~1.05
Nickel	0.65~0.75

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	3000Hz
	Voltage drop	≤1.5V
	Leakage current	<0.01mA
	Load current	200mA
	No load current	≤10mA(24V)
	Hysteresis	<15%(Sr)
	Repeatability	<1.0%(Sr)
	Temperature drift	<10%(Sr)
	Short circuit protection	Yes
	Overload protection	Yes
	Polarity reversal protection	Yes
Environment	Ambient temperature	-40...85°C
	Ingress protection	IP67
Mechanical data	Housing material	Stainless steel
	Face material	POM
Electrical connection	Connectors	PUR cable/2m ; 3*0.18mm ²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring

