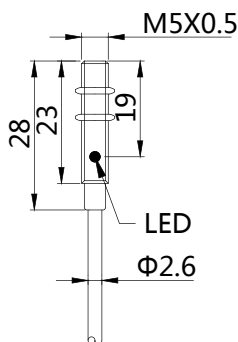


Features:

- M5*0.5 mm , Stainless steel housing;
- 0.8/1.2mm , flush mountable;
- DC 3-wire , switching output;
- Cable



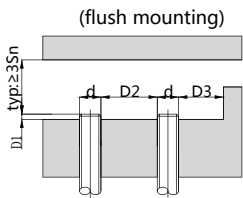
Dimensioned drawing



Model No.

Sensing range	Sn: 0.8 mm	Sn: 1.2 mm
NPN N. O	BB-M50. 8N-V11P2	BB-M51. 2N-V11P2
NPN N. C	BB-M50. 8N-V21P2	BB-M51. 2N-V21P2
PNP N. O	BB-M50. 8P-V11P2	BB-M51. 2P-V11P2
PNP N. C	BB-M50. 8P-V21P2	BB-M51. 2P-V21P2

Mounting



Sn	D1	D2	D3
M50.8	≥0	≥5	≥5
M51.2	≥0	≥5	≥5

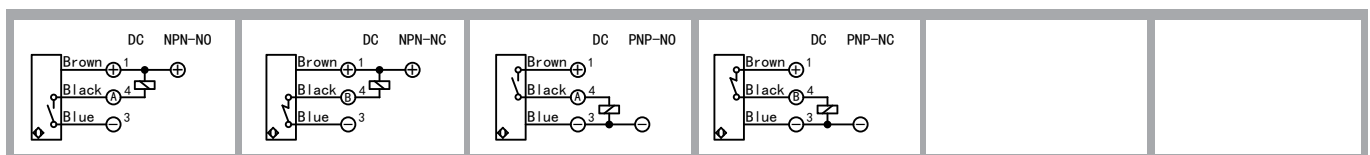
⚠ Tightening torque of the fastening screws: <1.5Nm!

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
	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*0.15mm²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring

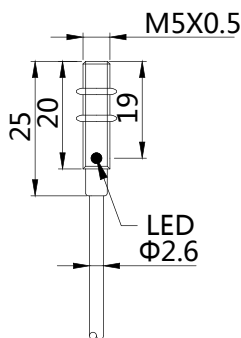


Features:

- M5*0.5 mm short body , Stainless steel housing;
- 0.8/1.2mm , flush mountable;
- DC 3-wire , switching output;
- Cable



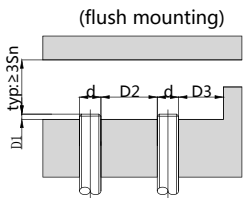
Dimensioned drawing



Model No.

Sensing range	Sn:0.8 mm	Sn:1.2 mm
NPN N. O	BB-M50. 8N-V11P2-S	BB-M51. 2N-V11P2-S
NPN N. C	BB-M50. 8N-V21P2-S	BB-M51. 2N-V21P2-S
PNP N. O	BB-M50. 8P-V11P2-S	BB-M51. 2P-V11P2-S
PNP N. C	BB-M50. 8P-V21P2-S	BB-M51. 2P-V21P2-S

Mounting



Sn	D1	D2	D3
M50.8	≥0	≥5	≥5
M51.2	≥0	≥5	≥5

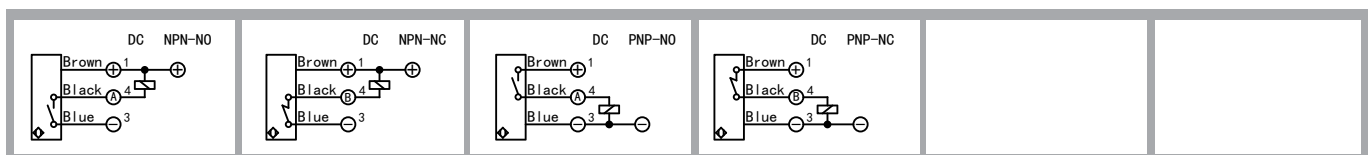
⚠ Tightening torque of the fastening screws: <1.5Nm!

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
	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*0.15mm²
Accessories	Accessories	NO
		(to be ordered separately)

Wiring



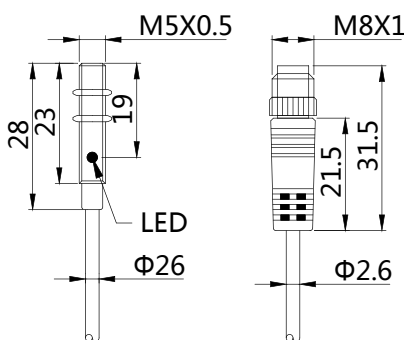


Features:

- M5*0.5 mm , Stainless steel housing;
- 0.8/1.2mm , flush mountable;
- DC 3-wire , switching output;
- Cable & pigtail versions



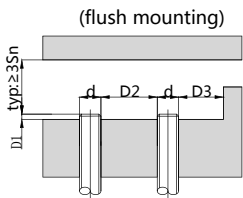
Dimensioned drawing



Model No.

Sensing range	Sn:0.8 mm	Sn:1.2 mm
NPN N. O	BB-M50. 8N-V11Z8	BB-M51. 2N-V11Z8
NPN N. C	BB-M50. 8N-V21Z8	BB-M51. 2N-V21Z8
PNP N. O	BB-M50. 8P-V11Z8	BB-M51. 2P-V11Z8
PNP N. C	BB-M50. 8P-V21Z8	BB-M51. 2P-V21Z8

Mounting



Sn	D1	D2	D3
M50.8	≥0	≥5	≥5
M51.2	≥0	≥5	≥5

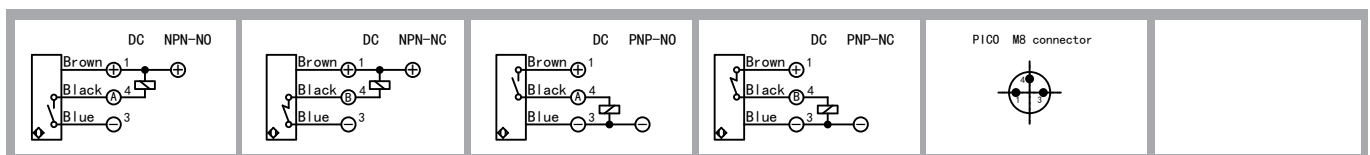
⚠ Tightening torque of the fastening screws: <1.5Nm!

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
	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*0.15mm²
		With M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2
		(to be ordered separately)

Wiring



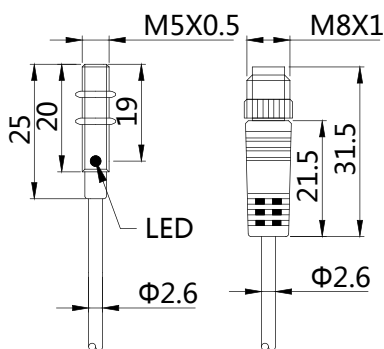


Features:

- M5*0.5 mm short body , Stainless steel housing;
- 0.8/1.2mm , flush mountable;
- DC 3-wire , switching output;
- Cable & pigtail versions



Dimensioned drawing



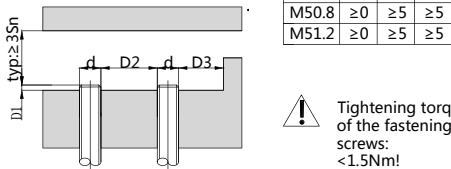
Model No.

Sensing range	Sn:0.8 mm	Sn:1.2 mm
NPN N. O	BB-M50. 8N-V11Z8-S	BB-M51. 2N-V11Z8-S
NPN N. C	BB-M50. 8N-V21Z8-S	BB-M51. 2N-V21Z8-S
PNP N. O	BB-M50. 8P-V11Z8-S	BB-M51. 2P-V11Z8-S
PNP N. C	BB-M50. 8P-V21Z8-S	BB-M51. 2P-V21Z8-S

Mounting

Mounting

(flush mounting)



Sn	D1	D2	D3
M50.8	≥0	≥5	≥5
M51.2	≥0	≥5	≥5

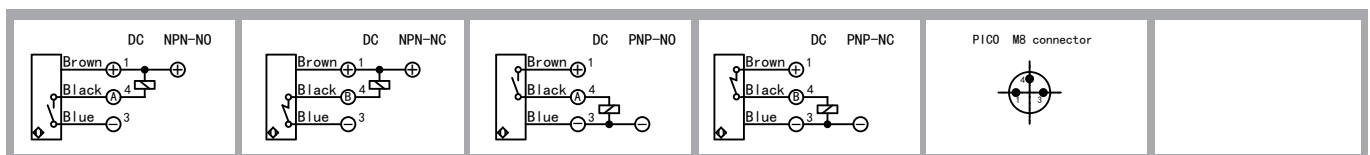
⚠ Tightening torque of the fastening screws: <1.5Nm!

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
	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*0.15mm ² With M8 connector
Accessories	Accessories	B8-3GV2/B8-3WV2 (to be ordered separately)

Wiring

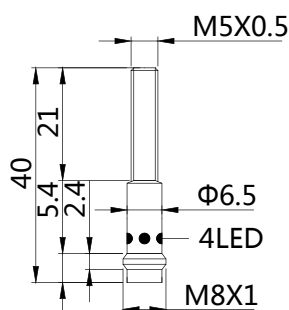


Features:

- M5*0.5 mm , Stainless steel housing;
- 0.8/1.2mm , flush mountable;
- DC 3-wire , switching output;
- Connector versions



Dimensioned drawing



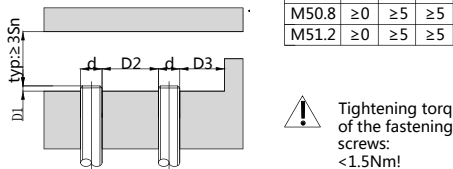
Model No.

Sensing range	Sn: 0.8 mm	Sn: 1.2 mm
NPN N. O	BB-M50. 8N-V11S8	BB-M51. 2N-V11S8
NPN N. C	BB-M50. 8N-V21S8	BB-M51. 2N-V21S8
PNP N. O	BB-M50. 8P-V11S8	BB-M51. 2P-V11S8
PNP N. C	BB-M50. 8P-V21S8	BB-M51. 2P-V21S8

Mounting

Mounting

(flush mounting)



Sn	D1	D2	D3
M50.8	≥0	≥5	≥5
M51.2	≥0	≥5	≥5

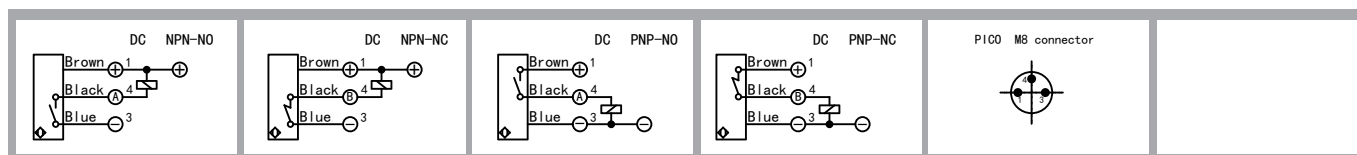
⚠ Tightening torque of the fastening screws: <1.5Nm!

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
	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



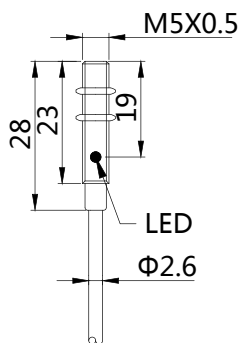


Features:

- M5*0.5 mm , Stainless steel housing;
- 0.8mm , flush mountable;
- NAMUR DC 2-wire , switching output;
- Cable



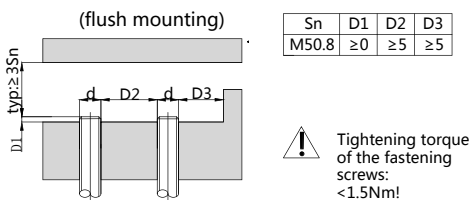
Dimensioned drawing



Model No.

Sensing range	Sn:0.8 mm
N. 0	BB-M50.8NA-V10P2

Mounting



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*0.18mm ²
Accessories	Accessories	NO (to be ordered separately)

Wiring

