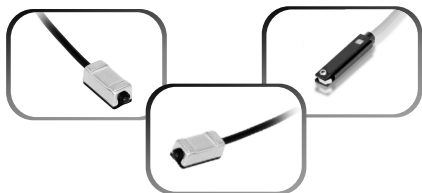


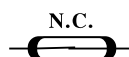
Magnetic Proximity Sensor

Features

- Can be used in the poor conditions, but not affected by dirt, moist, gas, dust etc.
- Long life-span and high reliability
- Wide range of size, to meet different kinds of industrial automation needs.



SB(W6XH4.5XL29)--Reed type	/ I-01
SI(W12XH12XL26)--Reed type	/ I-01
M8, M12--Reed type	/ I-02
M18--Reed type	/ I-03
M8, M12--Hall effect type	/ I-04
High-speed Gear Sensor	/ I-05



Bistable "N.O.-N.C."



Bistable changeover



PICTURE

W6xH4.5xL29



CE

PPSSB-LA-D2N2

* 18

W12xH12xL26



CE

PPSSI-LA-D2N2

* 18

DC-2 wires N.O.

DC-2 wires N.C.

Rated sensing distance

Depends on intensity of magnetic steel

Mounting

Supply voltage

12...24VDC (10-30VDC) , ripple: 10% max

Leakage current

Setting distance

Standard target

Magnetic steel

Frequency

300Hz

Consumption

Load current

80mA

Voltage drop(V_p)

Electrical durability

10^5 (5V, 10^5)

Repeatability

Display

Red LED

Protection Circuit

Operating temperature

-25...+70°C(no condensation)

Anti-impact

300m/s²(30G) X、Y、Z direction, each 10 times

Anti-vibration

10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours

Protection

IP67

Connection

Cable: ϕ 2.8mm 2M

Cable: ϕ 4.0mm 2M

Housing material

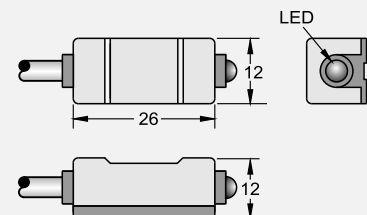
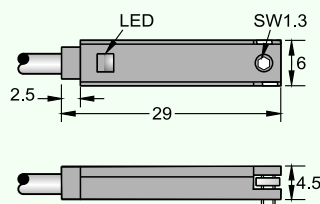
ABS

ABS+Metal

Sensing face material

ABS

Dimensional drawing



Remark

18—NO of wiring diagram(refers to page 12...15)

PICTURE

M8x1, L40



CE

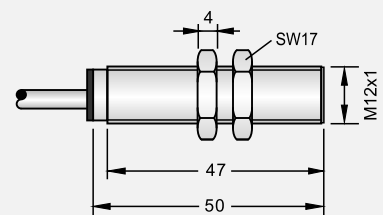
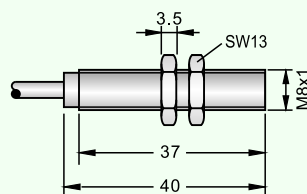
M12x1, L50



CE

DC-2 wires N.O.	PBT8-05LA-D2N2	* 18	PBT12-10LA-D2N2	* 18
DC-2 wires N.C.			PBT12-10LB-D2N2	* 18
Rated sensing distance	(Approx 5mm) depends on intensity of magnetic steel		(Approx 10mm) depends on intensity of magnetic steel	
Mounting				
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current				
Setting distance				
Standard target	Magnetic steel			
Frequency	300Hz			
Consumption				
Load current	200mA			
Voltage drop(V _p)				
Electrical durability	10 ⁵ (5V, 10 ⁸)			
Repeatability				
Display	Red LED(selectable)			
Protection Circuit				
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	300m/s ² (30G) X、 Y、 Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、 Y、 Z direction each 2 hours			
Protection	IP67			
Connection	Cable: φ3.2mm 2M		Cable: φ4.0mm 2M	
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark 18—NO of wiring diagram(refers to page 12...15)

PICTURE

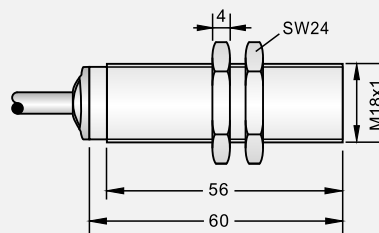
M18x1, L60



CE

DC-2 wires N.O.	PBT18-10LA-D2N2	* 18
DC-2 wires N.C.	PBT18-10LB-D2N2	* 18
Rated sensing distance	(Approx.10mm)Depends on intensity of magnetic steel	
Mounting		
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max	
Leakage current		
Setting distance		
Standard target	Magnetic steel	
Frequency	300Hz	
Consumption		
Load current	500mA	
Voltage drop(V _p)		
Electrical durability	10 ⁵ (5V, 10 ⁵)	
Repeatability		
Display	Red LED(selectable)	
Protection Circuit		
Operating temperature	-25...+70°C(no condensation)	
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times	
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours	
Protection	IP67	
Connection	Cable: φ4.8mm 2M	
Housing material	nickel-plated brass	
Sensing face material	PBT	

Dimensional drawing



Remark

18—NO of wiring diagram(refers to page 12...15)

PICTURE

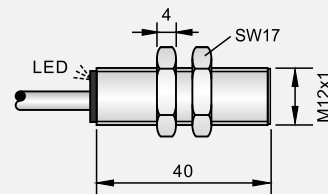
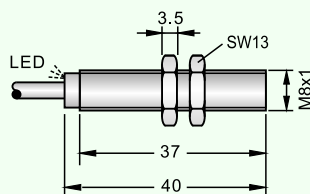
M8x1, L40

CE
M12x1, L40

CE

DC-3 wires NPN N.O.	HBT8-S05NA-D3Y2	* 01	HBT12-S05NA-D3Y2	* 01
DC-3 wires NPN N.C.	HBT8-S05NB-D3Y2	* 02	HBT12-S05NB-D3Y2	* 02
DC-3 wires PNP N.O.	HBT8-S05PA-D3Y2	* 03	HBT12-S05PA-D3Y2	* 03
DC-3 wires PNP N.C.	HBT8-S05PB-D3Y2	* 04	HBT12-S05PB-D3Y2	* 04
Rated sensing distance	(Approx.5mm)Depends on intensity of magnetic steel			
Mounting	shield			
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA			
Setting distance				
Standard target	Magnetic steel			
Frequency	150Hz			
Consumption	≤10mA			
Load current	200mA			
Voltage drop(V _p)	≤1.8V			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Outputs short circuit and over current protected, Vs reverse polarity protected			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	Cable: ϕ3.2mm 2M		Cable: ϕ4.0mm 2M	
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

01 . 02 . 03 . 04—NO of wiring diagram(refers to page 12...15)

PICTURE

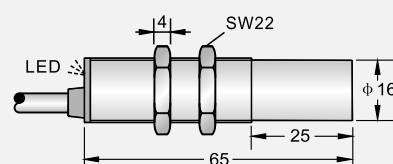
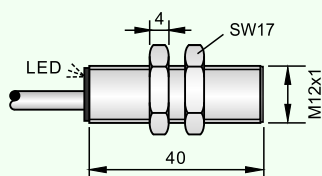
M12x1, L40

CE
M16x1, L65

CE

DC-3 wires NPN N.O.	GBT12-S01NA-D3Y2	* 01	GBT16-S01NA-D3Y2	* 01
DC-3 wires NPN N.C.	GBT12-S01NB-D3Y2	* 02	GBT16-S01NB-D3Y2	* 02
DC-3 wires PNP N.O.	GBT12-S01PA-D3Y2	* 03	GBT16-S01PA-D3Y2	* 03
DC-3 wires PNP N.C.	GBT12-S01PB-D3Y2	* 04	GBT16-S01PB-D3Y2	* 04
Rated sensing distance	1mm			
Mounting	shield			
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA			
Setting distance	—			
Standard target	Gear, Rack			
Frequency	20KHz			
Consumption	≤10mA			
Load current	150mA			
Voltage drop(V_p)	≤1.8V			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Short circuit protection , revised polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	Cable: φ4.0mm 2M			
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

01 . 02 . 03 . 04—NO of wiring diagram(refers to page 12...15)