

A COMPLETE AUTOMATION SOLUTION

SENSORS & AUTOMATION

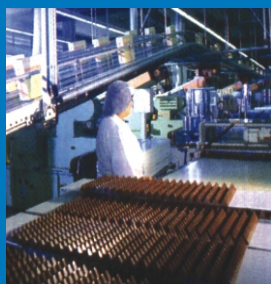
ANALOG
ENCODERS
INDUCTIVE
CAPACITIVE
CONTROL INSTRUMENT
PHOTOELECTRIC
ULTRASONIC
FORK SENSOR
DISTANCE SENSOR
where demand we supply
AC - DRIVES



GLASS



TEXTILE & CHEMICAL



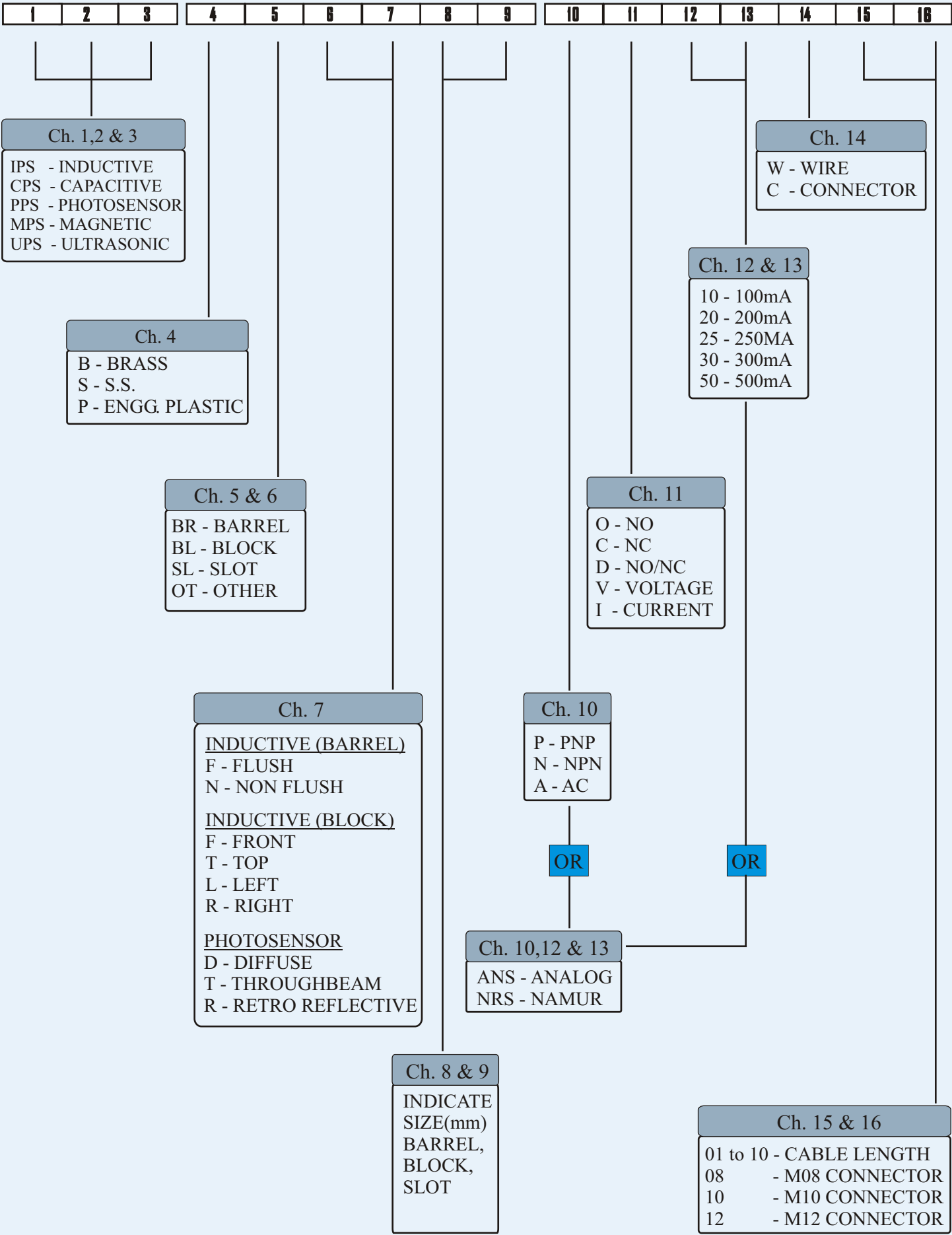
FOOD & BEVERAGE



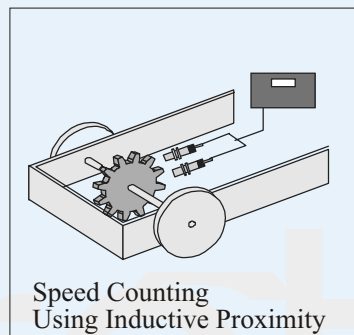
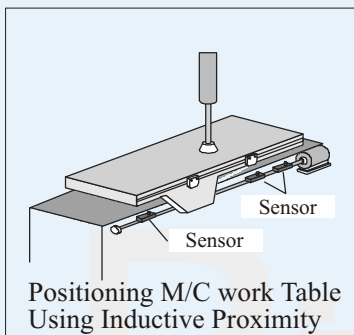
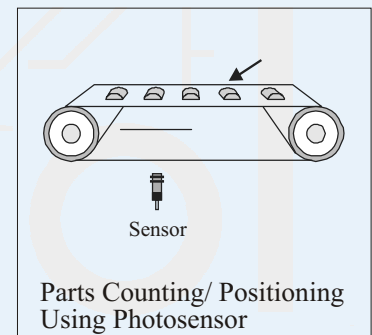
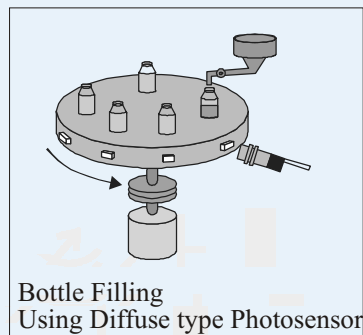
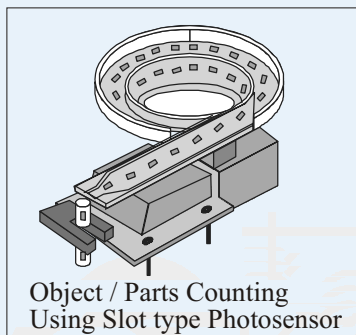
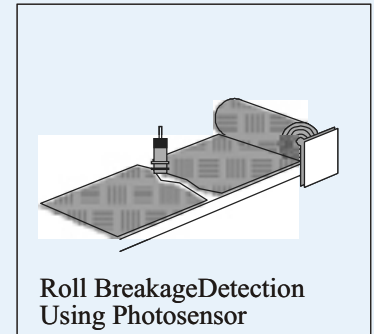
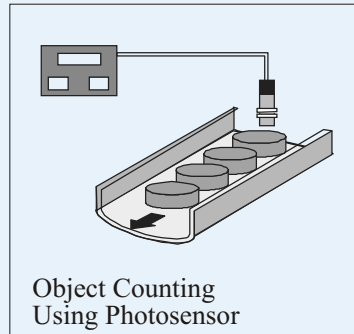
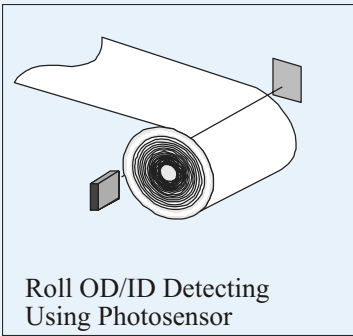
PETROCHEMICAL



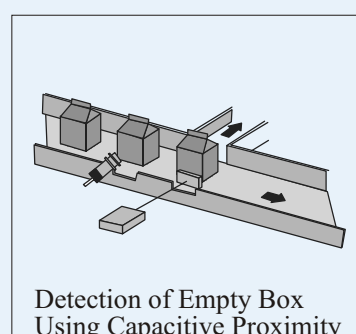
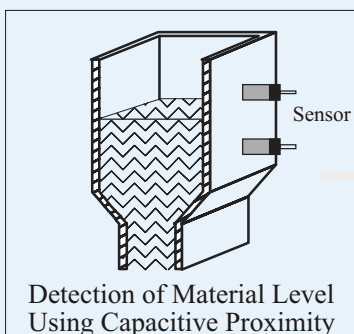
PHARMACEUTICAL



Example: IPS-BBRN18-PO20W02 - Inductive/Brass/Barrel/Non-flush/18mm/PNP/NO/200mA/Wire/2Mtr.
PPS-BBRD18-PO30W02 - Photosensor/Brass/Barrel/Diffuse/18mm/PNP/NO/300mA/Wire/2Mtr.



For Process Automation in various industries such as Pharmaceutical, Packaging, Food processing, Textiles, Material handling systems, Automobile engineering, Film/ Paper, Chemical, Paints, Ceramic floor tiles, Storage system, Safety and Security and many other application.



Inductive Proximity (3-Wire, 10-30V DC supply Switch)

Common Specification

- Supply : 10-30 Volts DC
- Output Current : 200 mA (Max.)
- No Load Current : 5-10mA (approx)
- Drop across Switch : < 1 Volt
- Reverse polarity protection, Short Circuit Protection and overload protection(DC)
- Operation confirmed easily by a LED indicator lamp
- Enhanced noise - Resistance by using exclusive IC (DC Power)

MODEL (IPS)	LOGIC- OUTPUT	MOUNTING		Sn. (MM)	(Hz)	VERSION TYPE		PART NO.
		NF	F			Cable	Conn.	
	PNP-NO	(ACTIVE FACE)		8	250	✓		IPS-PBLF20-PO20W02
		F- FRONT		8	250	✓		IPS-PBLT20-PO20W02
	PNP-NC	L- LEFT		8	250	✓		IPS-PBLF20-PC20W02
		R- RIGHT		8	250	✓		IPS-PBLT20-PC20W02
	NPN-NO	T- TOP		8	250	✓		IPS-PBLF20-NO20W02
				8	250	✓		IPS-PBLT20-NO20W02
	NPN-NC			8	250	✓		IPS-PBLF20-NC20W02
				8	250	✓		IPS-PBLT20-NC20W02
M05 x 28 MM 	PNP-NO		✓	0.8	1000	✓		IPS-BBRF05-PO20W02
	PNP-NC		✓	0.8	1000	✓		IPS-BBRF05-PC20W02
	NPN-NO		✓	0.8	1000	✓		IPS-BBRF05-NO20W02
	NPN-NC		✓	0.8	1000	✓		IPS-BBRF05-NC20W02
M06 Dim: M6.5 x 45 MM 	PNP-NO		✓	1	1000	✓		IPS-BBRF06-PO20W02
	PNP-NC		✓	1	1000	✓		IPS-BBRF06-PC20W02
	NPN-NO		✓	1	1000	✓		IPS-BBRF06-NO20W02
	NPN-NC		✓	1	1000	✓		IPS-BBRF06-NC20W02
M08 X 45 MM 	PNP-NO	✓		2	800			IPS-BBRN08-PO20W02
			✓	1.5	800			IPS-BBRF08-PO20W02
	PNP-NC	✓		2	800			IPS-BBRN08-PC20W02
			✓	1.5	800			IPS-BBRF12-PC20W02
	NPN-NO	✓		2	800	✓		IPS-BBRN08-NO20W02
			✓	1.5	800	✓		IPS-BBRF08-NO20W02
M08 X 45 MM 	NPN-NC	✓		2	800	✓		IPS-BBRN08-NC20W02
			✓	1.5	800	✓		IPS-BBRF08-NC20W02
	PNP-NO	✓		2	800		✓	IPS-BBRN08-PO20C12
			✓	1.5	800		✓	IPS-BBRF08-PO20C12
	PNP-NC	✓		2	800		✓	IPS-BBRN08-PC20C12
			✓	1.5	800		✓	IPS-BBRF08-PC20C12
	NPN-NO	✓		2	800		✓	IPS-BBRN08-NO20C12
			✓	1.5	800		✓	IPS-BBRF08-NO20C12
	NPN-NC	✓		2	800		✓	IPS-BBRN08-NC20C12
			✓	1.5	800		✓	IPS-BBRF08-NC20C12

Inductive Proximity (3-Wire, 10-30V DC supply Switch)

MODEL (IPS)	LOGIC- OUTPUT	MOUNTING		Sn. (MM)	(Hz)	VERSION TYPE		PART NO.
		NF	F			Cable	Conn.	
 M12 X 30 MM M12 X 40 MM M12 X 60 MM	PNP-NO	✓		4	400	✓		IPS-BBRN12-PO20W02
			✓	2	800	✓		IPS-BBRF12-PO20W02
	PNP-NC	✓		4	400	✓		IPS-BBRN12-PC20W02
			✓	2	800	✓		IPS-BBRF12-PC20W02
	NPN-NO	✓		4	400	✓		IPS-BBRN12-NO20W02
			✓	2	800	✓		IPS-BBRF12-NO20W02
 M12 X 35 MM M12 X 45 MM M12 X 65 MM	PNP-NO	✓		4	400		✓	IPS-BBRN12-PO20C12
			✓	2	800		✓	IPS-BBRF12-PO20C12
	PNP-NC	✓		4	400		✓	IPS-BBRN12-PC20C12
			✓	2	800		✓	IPS-BBRF12-PC20C12
	NPN-NO	✓		4	400		✓	IPS-BBRN12-NO20C12
			✓	2	800		✓	IPS-BBRF12-NO20C12
	NPN-NC	✓		4	400		✓	IPS-BBRN12-NC20C12
			✓	2	800		✓	IPS-BBRF12-NC20C12
 M18 X 30 MM M18 X 55 MM M18 X 70 MM	PNP-NO	✓		8	250	✓		IPS-BBRN18-PO20W02
			✓	5	350	✓		IPS-BBRF18-PO20W02
	PNP-NC	✓		8	250	✓		IPS-BBRN18-PC20W02
			✓	5	350	✓		IPS-BBRF18-PC20W02
	NPN-NO	✓		8	250	✓		IPS-BBRN18-NO20W02
			✓	5	350	✓		IPS-BBRF18-NO20W02
	NPN-NC	✓		8	250	✓		IPS-BBRN18-NC20W02
			✓	5	350	✓		IPS-BBRF18-NC20W02
 M18 X 35 MM M18 X 60 MM M18 X 75 MM	PNP-NO	✓		8	250		✓	IPS-BBRN18-PO20C12
			✓	5	350		✓	IPS-BBRF18-PO20C12
	PNP-NC	✓		8	250		✓	IPS-BBRN18-PC20C12
			✓	5	350		✓	IPS-BBRF18-PC20C12
	NPN-NO	✓		8	250		✓	IPS-BBRN18-NO20C12
			✓	5	350		✓	IPS-BBRF18-NO20C12
	NPN-NC	✓		8	250		✓	IPS-BBRN18-NC20C12
			✓	5	350		✓	IPS-BBRF18-NC20C12
 M30 X 55 MM M30 X 70 MM	PNP-NO	✓		15	100	✓		IPS-BBRN30-PO20W02
			✓	10	250	✓		IPS-BBRF30-PO20W02
	PNP-NC	✓		15	100	✓		IPS-BBRN30-PC20W02
			✓	10	250	✓		IPS-BBRF30-PC20W02
	NPN-NO	✓		15	100	✓		IPS-BBRN30-NO20W02
			✓	10	250	✓		IPS-BBRF30-NO20W02
	NPN-NC	✓		15	100	✓		IPS-BBRN30-NC20W02
			✓	10	250	✓		IPS-BBRF30-NC20W02
 M30 X 60 MM M30 X 75 MM	PNP-NO	✓		15	100		✓	IPS-BBRN30-PO20C12
			✓	10	250		✓	IPS-BBRF30-PO20C12
	PNP-NC	✓		15	100		✓	IPS-BBRN30-PC20C12
			✓	10	250		✓	IPS-BBRF30-PC20C12
	NPN-NO	✓		15	100		✓	IPS-BBRN30-NO20C12
			✓	10	250		✓	IPS-BBRF30-NO20C12
	NPN-NC	✓		15	100		✓	IPS-BBRN30-NC20C12
			✓	10	250		✓	IPS-BBRF30-NC20C12

Inductive Proximity (2-Wire, 110 - 230V AC supply Switch)

MODEL (IPS)	LOGIC- OUTPUT	MOUNTING		Sn. (MM)	(Hz)	VERSION TYPE		PART NO.
		NF	F			Cable	Conn.	
M12 X 110 MM 	NO	✓		4	15	✓		IPS-BBRN12-AO20W02
			✓	2	15	✓		IPS-BBRF12-AO20W02
	NC	✓		4	15	✓		IPS-BBRN12-AC20W02
			✓	2	15	✓		IPS-BBRF12-AC20W02
M18 X 70 MM 	NO	✓		8	15	✓		IPS-BBRN18-AO20W02
			✓	5	15	✓		IPS-BBRF18-AO20W02
	NC	✓		8	15	✓		IPS-BBRN18-AC20W02
			✓	5	15	✓		IPS-BBRF18-AC20W02

Analog Inductive Proximity (3-Wire, 15V DC supply Switch)

MODEL (IPS)	OUTPUT TYPE	SENSING RANGE (MM)	OUTPUT	(Hz)	PART NO.
M18 X 70 MM 	ANALOGUE (VOLTAGE)	2 ... 7	0 ... 10 VDC OVER FULL RANGE	1000	IPS-BBRN18-VANSW02
M18 X 70 MM 	ANALOGUE (CURRENT)	2 ... 7	4 ... 20mA OVER FULL RANGE	1000	IPS-BBRN18-IANSW02

Other Products


- Power Supply Relay Unit
- PTC Thermistor Relay Unit
- NAMUR Amplifier Relay Unit



- Sensors's Connector-Wire Assembly
(4-Pin M12 Female Connector)

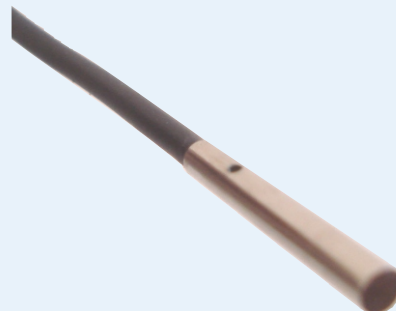
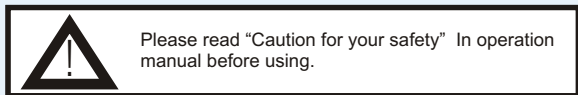
Photoelectric Sensor (10-30V DC supply Switch)

MODEL (PPS)	Sn. (MM)*	LOGIC - OUTPUT	FREQUENCY (Hz)	VERSION TYPE		AVAILABLE MODE
				Cable	Conn.	
M12 Dim: M12 x 60 MM 	20 ... 100	PNP-NO or NC	100	✓	✓	Diffuse Through
		NPN-NO or NC		✓	✓	
M18 Dim: M18 x 65 MM 	50 ... 300	PNP-NO or NC	100	✓	✓	Diffuse Through Retro-Reflect
		PNP-NO/ NC (S)		✓	✓	
		NPN-NO or NC		✓	✓	
		NPN-NO/ NC (S)		✓	✓	
M30 Dim: M30 x 55 MM 	500 ... 1500	PNP-NO or NC	100	✓	✗	Diffuse Through Retro-Reflect
		PNP-NO/ NC (S)		✓	✗	
		NPN-NO or NC		✓	✗	
		NPN-NO/ NC (S)		✓	✗	
MINIATURE Dim: 20 x 30 x 14 MM 	20 ... 150	PNP-NO or NC	100	✓	✗	Diffuse Through
		NPN-NO or NC		✓	✗	
BLOCK Dim: 55 x 50 x 17 MM 	50 ... 200	PNP-NO/ NC (S)	100	✓	✓	Diffuse Through Retro-Reflect
		NPN-NO/ NC (S)		✓	✓	
FORK (SLOT) 	SLOT SIZE 3 20 50 100	PNP-NO/ NC (S)	50	✓	✗	Through
		NPN-NO/ NC (S)		✓	✗	
MARK SENSOR 		PNP-NO/ NC (S)	100	✓	✓	Diffuse
		NPN-NO/ NC (S)		✓	✓	

* It shows Sensing Distance(Sn) for Diffuse mode. Sn is changed for Through/Reflector mode.

Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch)

IPS	B	BR	N	05	P	O	20	W	02
Inductive proximity switch	B-Brass	BR-Barrel	F-Flush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA (Load current)	W-Wire	Cable length (mtr.)

Specifications

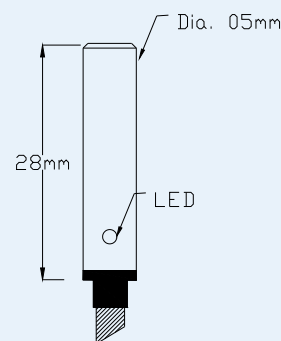
Model Type	IPS-05
Dimensions (mm)	Dia. 5 X 28 *
Housing material	Brass, nickel-plated
Indicator	LED
Power supply	10 ... 30 V DC
Control output	200mA
Leakage current	Max. 0.9mA
Switching output	PNP or NPN
Output function	NO or NC
Installation	Flush
Sensing distance (mm)	0.8
Response frequency Hz	2K
Hysteresis	10 ... 15% of Sn
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

* Threadless Barrel

Please contact factory for customize product

Specifications are subject to change without prior intimation

FLUSH

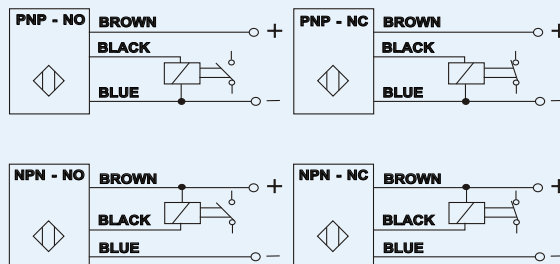


Standard Model:

IPS-BBRF05-PO20W02
IPS-BBRF05-NO20W02

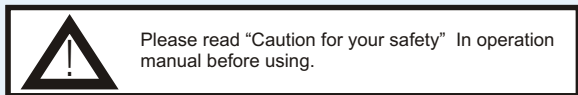
IPS-BBRF05-PC20W02
IPS-BBRF05-NC20W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch)

IPS	B	BR	N	06	P	O	20	W	02
Inductive proximity switch	B-Brass	BR-Barrel	F-Flush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA (Load current)	W-Wire	Cable length (mtr.)

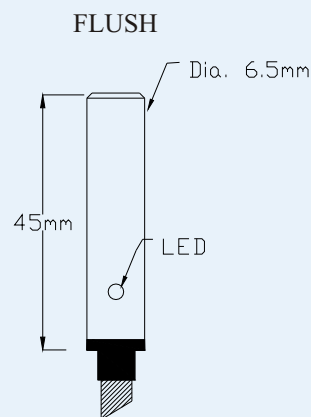
Specifications

Model Type	IPS-06
Dimensions (mm)	Dia. 6.5 X 45 *
Housing material	Brass, nickel-plated
Indicator	LED
Power supply	10 ... 30 V DC
Control output	200mA
Leakage current	Max. 0.9mA
Switching output	PNP or NPN
Output function	NO or NC
Installation	Flush
Sensing distance (mm)	1
Response frequency Hz	1500
Hysteresis	10 ... 15% of Sn
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

* Threadless Barrel

Please contact factory for customize product

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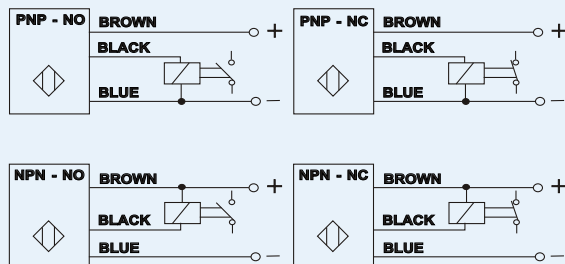


Standard Model:

IPS-BBRF06-PO20W02
IPS-BBRF06-NO20W02

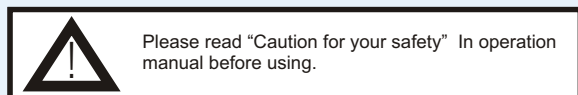
IPS-BBRF06-PC20W02
IPS-BBRF06-NC20W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch)

IPS	B	BR	N	08	P	O	20	W	02
Inductive proximity switch	B-Brass	BR-Barrel	F-Flush N-Nonflush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn.	Cable length (mtr.)

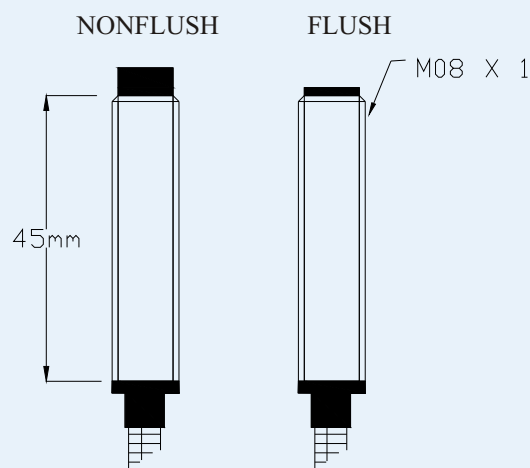
Specifications

Model Type	IPS-08	
Dimensions (mm)	M08 × 1*	
Housing material	Brass, nickel-plated	
Indicator	LED	
Power supply	10 ... 30 V DC	
Control output	200mA	
Leakage current	Max. 0.9mA	
Switching output	PNP or NPN	
Output function	NO or NC	
Installation	Flush	Non-flush
Sensing distance (mm)	1.5	2
Response frequency Hz	1000	1200
Hysteresis	10 ... 15% of Sn	
Ambient humidity	35 ... 95% RH	
Ambient temperature	0 deg. C. to 70 deg. C.	

* Barrel thread pitch 1mm

Please contact factory for customize product

Specifications are subject to change without prior intimation

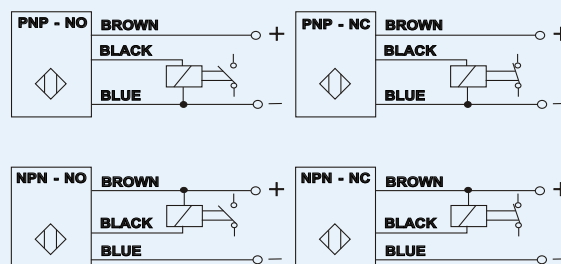


Standard Model:

IPS-BBRN08-PO20W02
IPS-BBRN08-NO20W02
IPS-BBRF08-PO20W02
IPS-BBRF08-NO20W02

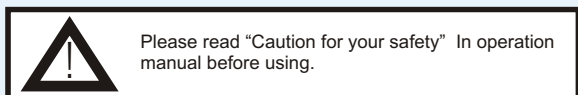
IPS-BBRN08-PC20W02
IPS-BBRN08-NC20W02
IPS-BBRF08-PC20W02
IPS-BBRF08-NC20W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch with Connector)

IPS	B	BR	N	08	P	O	20	C	12
Inductive proximity switch	B-Brass	BR-Barrel	F-Flush N-Nonflush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn.	Connector Size

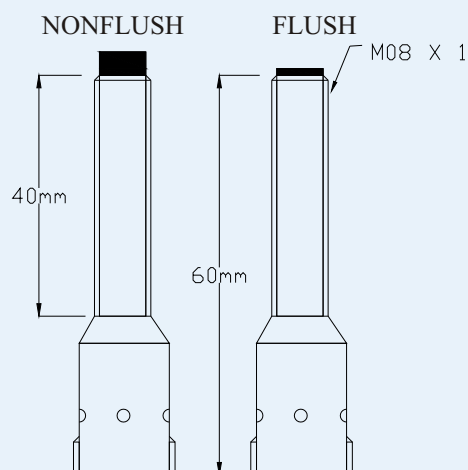
Specifications

Model Type	IPS-08	
Dimensions (mm)	M08 × 1*	
Housing material	Brass, nickel-plated	
Indicator	LED	
Power supply	10 ... 30 V DC	
Control output	200mA	
Leakage current	Max. 0.9mA	
Switching output	PNP or NPN	
Output function	NO or NC	
Installation	Flush	Non-flush
Sensing distance (mm)	1.5	2
Response frequency Hz	1200	1000
Hysteresis	10 ... 15% of Sn	
Ambient humidity	35 ... 95% RH	
Ambient temperature	0 deg. C. to 70 deg. C.	

* Barrel thread pitch 1mm

Please contact factory for customize product

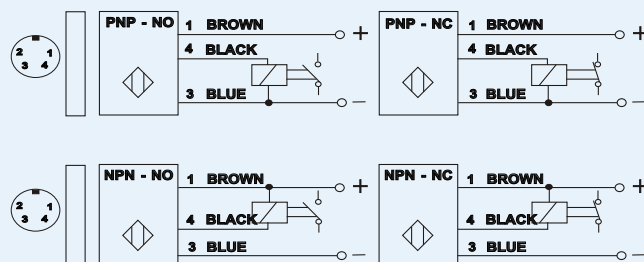
Specifications are subject to change without prior intimation



Standard Model:

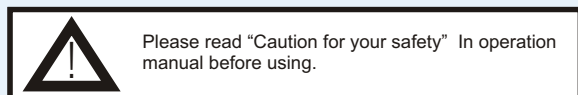
IPS-BBRN08-PO20C12	IPS-BBRN08-PC20C12
IPS-BBRN08-NO20C12	IPS-BBRN08-NC20C12
IPS-BBRF08-PO20C12	IPS-BBRF08-PC20C12
IPS-BBRF08-NO20C12	IPS-BBRF08-NC20C12

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch)

IPS	B	BR	N	12	P	O	20	W	02
Inductive proximity switch	B-Brass P-Plastic	BR-Barrel	F-Flush N-Nonflush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn.	Cable length (mtr.)

Specifications

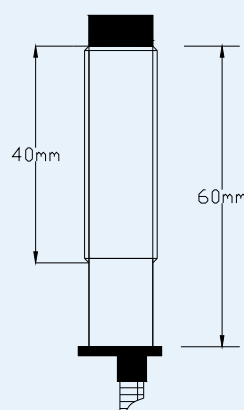
Model Type	IPS-12	
Dimensions (mm)	M12 × 1*	
Housing material	Brass, nickel-plated	
Indicator	Red LED	
Power supply	10 ... 30 V DC	
Control output	200mA	
Leakage current	Max. 0.9mA	
Switching output	PNP or NPN	
Output function	NO or NC	
Installation	Flush	Non-flush
Sensing distance (mm)	2	4
Response frequency Hz	800	400
Hysteresis	10 ... 15% of Sn	
Ambient humidity	35 ... 95% RH	
Ambient temperature	0 deg. C. to 70 deg. C.	

* Barrel thread pitch 1mm

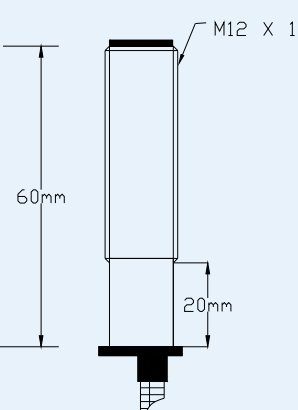
Please contact factory for customize product

Specifications are subject to change without prior intimation

NONFLUSH



FLUSH

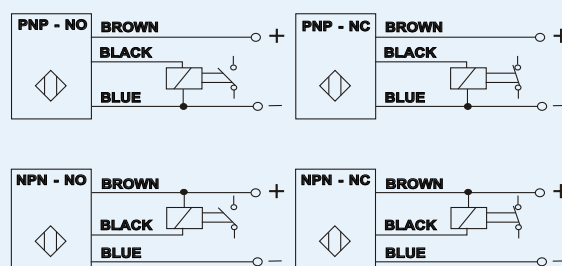


Standard Model:

IPS-BBRN12-PO20W02
IPS-BBRN12-NO20W02
IPS-BBRF12-PO20W02
IPS-BBRF12-NO20W02

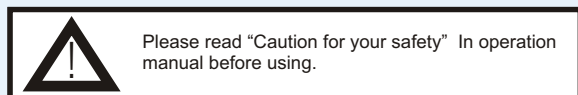
IPS-BBRN12-PC20W02
IPS-BBRN12-NC20W02
IPS-BBRF12-PC20W02
IPS-BBRF12-NC20W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch with Connector)

IPS	B	BR	N	12	P	O	20	C	12
Inductive proximity switch	B-Brass P-Plastic	BR-Barrel	F-Flush N-Nonflush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn-ector	Connector Size

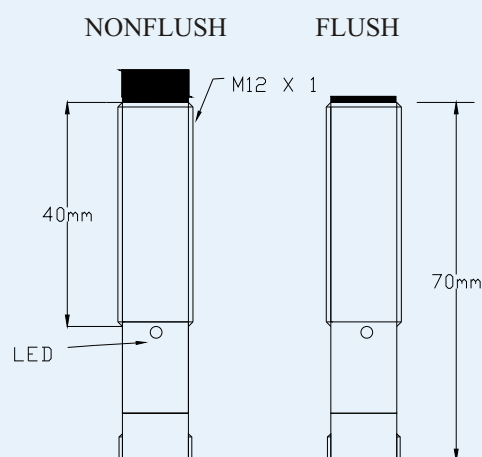
Specifications

Model Type	IPS-12	
Dimensions (mm)	M12 × 1*	
Housing material	Brass, nickel-plated	
Indicator	Red LED	
Power supply	10 ... 30 V DC	
Control output	200mA	
Leakage current	Max. 0.9mA	
Switching output	PNP or NPN	
Output function	NO or NC	
Installation	Flush	Non-flush
Sensing distance (mm)	2	4
Response frequency Hz	800	400
Hysteresis	10 ... 15% of Sn	
Ambient humidity	35 ... 95% RH	
Ambient temperature	0 deg. C. to 70 deg. C.	

* Barrel thread pitch 1mm

Please contact factory for customize product

Specifications are subject to change without prior intimation

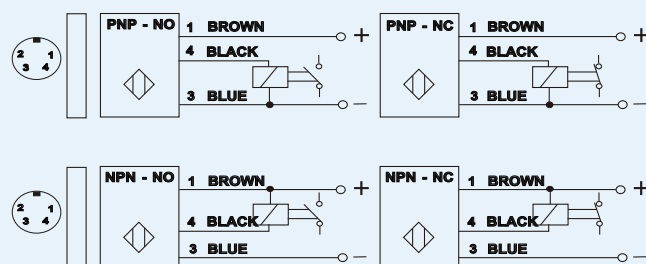


Standard Model:

IPS-BBRN12-PO20C12
IPS-BBRN12-NO2C12
IPS-BBRF12-PO20C12
IPS-BBRF12-NO20C12

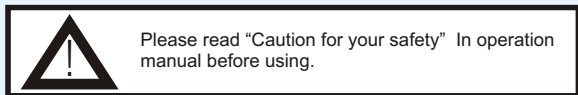
IPS-BBRN12-PC20C12
IPS-BBRN12-NC20C12
IPS-BBRF12-PC20C12
IPS-BBRF12-NC20C12

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch)

IPS	B	BR	N	18	P	O	20	W	02
Inductive proximity switch	B-Brass P-Plastic	BR-Barrel	F-Flush N-Nonflush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn.	Cable length (mtr.)

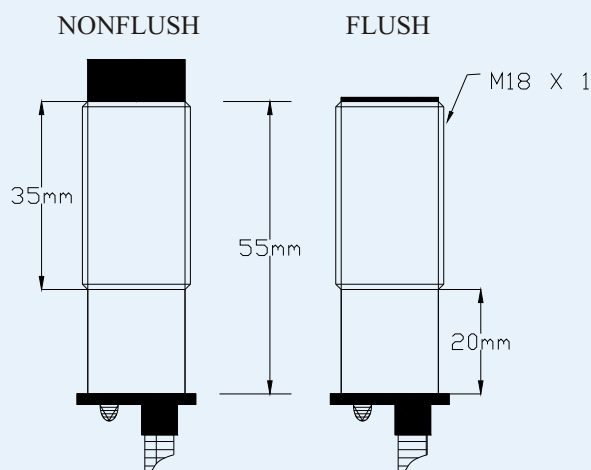
Specifications

Model Type	IPS-18	
Dimensions (mm)	M18 × 1*	
Housing material	Brass, nickel-plated	
Indicator	Red LED	
Power supply	10 ... 30 V DC	
Control output	200mA	
Leakage current	Max. 0.9mA	
Switching output	PNP or NPN	
Output function	NO or NC	
Installation	Flush	Non-flush
Sensing distance (mm)	5	8
Response frequency Hz	350	250
Hysteresis	10 ... 15% of Sn	
Ambient humidity	35 ... 95% RH	
Ambient temperature	0 deg. C. to 70 deg. C.	

* Barrel thread pitch 1mm

Please contact factory for customize product

Specifications are subject to change without prior intimation

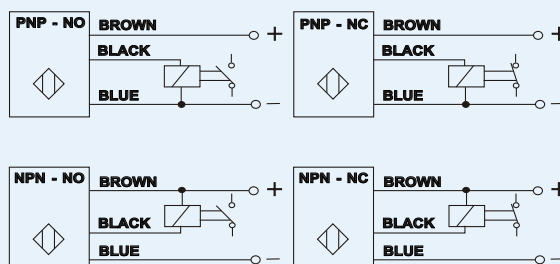


Standard Model:

IPS-BBRN18-PO20W02
IPS-BBRN18-NO20W02
IPS-BBRF18-PO20W02
IPS-BBRF18-NO20W02

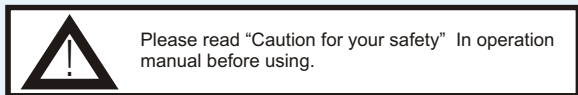
IPS-BBRN18-PC20W02
IPS-BBRN18-NC20W02
IPS-BBRF18-PC20W02
IPS-BBRF18-NC20W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch with Connector)

IPS	B	BR	N	18	P	O	20	C	12
Inductive proximity switch	B-Brass P-Plastic	BR-Barrel	F-Flush N-Nonflush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn-ector	Connector Size

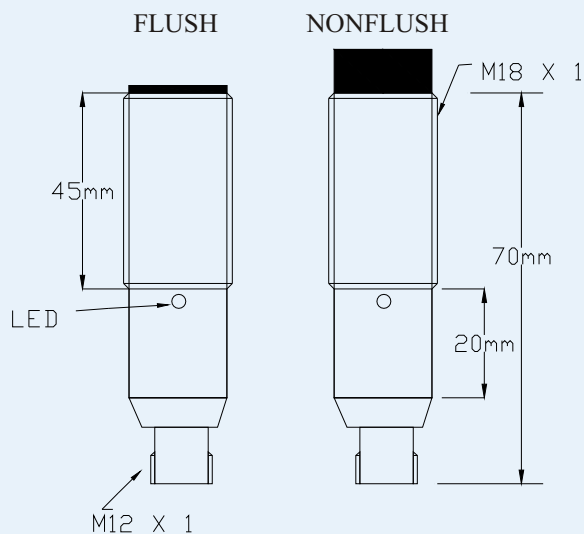
Specifications

Model Type	IPS-18	
Dimensions (mm)	M18 × 1*	
Housing material	Brass, nickel-plated	
Indicator	Red LED	
Power supply	10 ... 30 V DC	
Control output	200mA	
Leakage current	Max. 0.9mA	
Switching output	PNP or NPN	
Output function	NO or NC	
Installation	Flush	Non-flush
Sensing distance (mm)	5	8
Response frequency Hz	350	250
Hysteresis	10 ... 15% of Sn	
Ambient humidity	35 ... 95% RH	
Ambient temperature	0 deg. C. to 70 deg. C.	

* Barrel thread pitch 1mm

Please contact factory for customize product

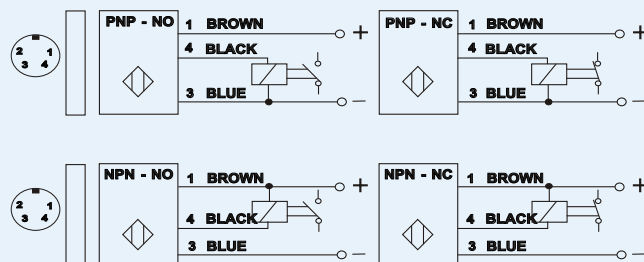
Specifications are subject to change without prior intimation



Standard Model:

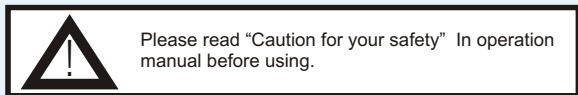
IPS-BBRN18-PO20C12	IPS-BBRN18-PC20C12
IPS-BBRN18-NO20C12	IPS-BBRN18-NC20C12
IPS-BBRF18-PO20C12	IPS-BBRF18-PC20C12
IPS-BBRF18-NO20C12	IPS-BBRF18-NC20C12

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch)

IPS	B	BR	N	18	P	O	20	W	02
Inductive proximity switch	B-Brass P-Plastic	BR-Barrel	F-Flush N-Nonflush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn.	Cable length (mtr.)

Specifications

Model Type	IPS-18	
Dimensions (mm)	M18 × 30 *	
Housing material	Brass, nickel-plated	
Indicator	Red LED	
Power supply	10 ... 30 V DC	
Control output	200mA	
Leakage current	Max. 0.9mA	
Switching output	PNP or NPN	
Output function	NO or NC	
Installation	Flush	Non-flush
Sensing distance (mm)	5	8
Response frequency Hz	350	250
Hysteresis	10 ... 15% of Sn	
Ambient humidity	35 ... 95% RH	
Ambient temperature	0 deg. C. to 70 deg. C.	

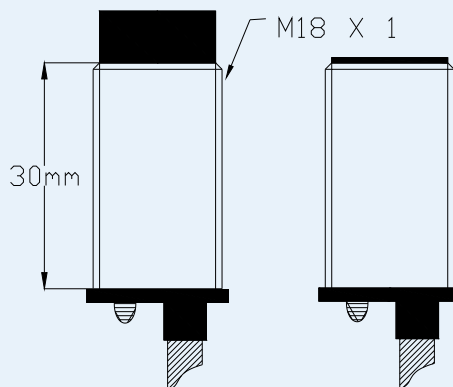
* Barrel thread pitch 1mm

Please contact factory for customize product

Specifications are subject to change without prior intimation

NONFLUSH

FLUSH

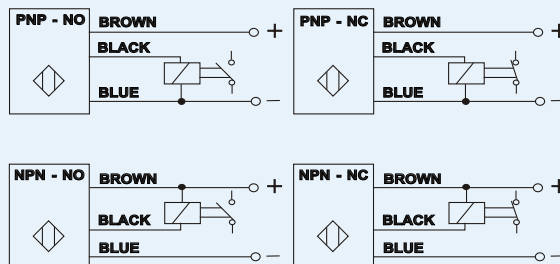


Standard Model:

IPS-BBRN18-PO20W02
IPS-BBRN18-NO20W02
IPS-BBRF18-PO20W02
IPS-BBRF18-NO20W02

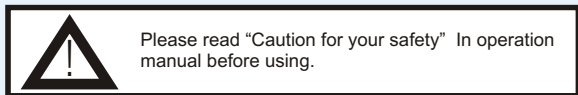
IPS-BBRN18-PC20W02
IPS-BBRN18-NC20W02
IPS-BBRF18-PC20W02
IPS-BBRF18-NC20W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (cylindrical DC power switch)

IPS	B	BR	N	30	P	O	20	W	02
Inductive proximity switch	B-Brass P-Plastic	BR-Barrel	F-Flush N-Nonflush	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn.	Cable length (mtr.)

Specifications

Model Type	IPS-30	
Dimensions (mm)	M30 × 1*	
Housing material	Brass, nickel-plated	
Indicator	Red LED	
Power supply	10 ... 30 V DC	
Control output	200mA	
Leakage current	Max. 0.9mA	
Switching output	PNP or NPN	
Output function	NO or NC	
Installation	Flush	Non-flush
Sensing distance (mm)	10	15
Response frequency Hz	250	100
Hysteresis	10 ... 15% of Sn	
Ambient humidity	35 ... 95% RH	
Ambient temperature	0 deg. C. to 70 deg. C.	

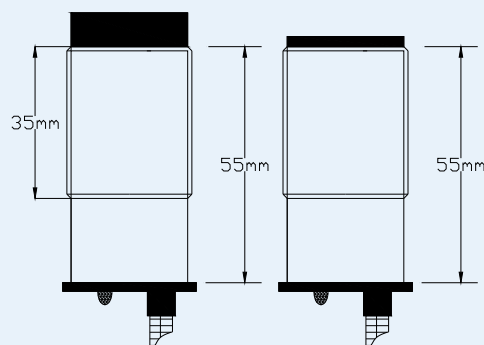
* Barrel thread pitch 1mm

Please contact factory for customize product

Specifications are subject to change without prior intimation

NONFLUSH

FLUSH

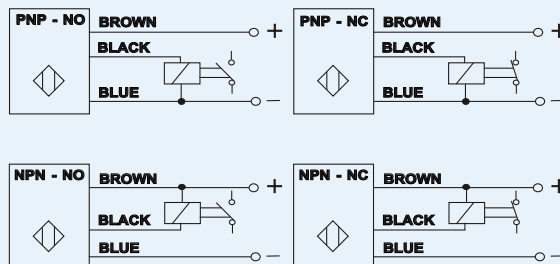


Standard Model:

IPS-BBRN30-PO20W02
IPS-BBRN30-NO20W02
IPS-BBRF30-PO20W02
IPS-BBRF30-NO20W02

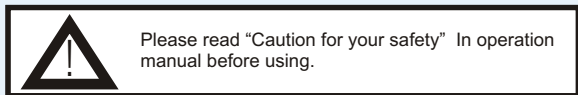
IPS-BBRN30-PC20W02
IPS-BBRN30-NC20W02
IPS-BBRF30-PC20W02
IPS-BBRF30-NC20W02

Connection detail



Features

- Reverse polarity protection and overload protection(AC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (AC Power)



Ordering information (cylindrical AC power switch)

IPS	B	BR	N	18	P	O	20	W	02
Inductive proximity switch	B-Brass P-Plastic	BR-Barrel	F-Flush N-Nonflush	Indicate size(mm) barrel dia.	A-AC	O-NO C-NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire	Cable length (mtr.)

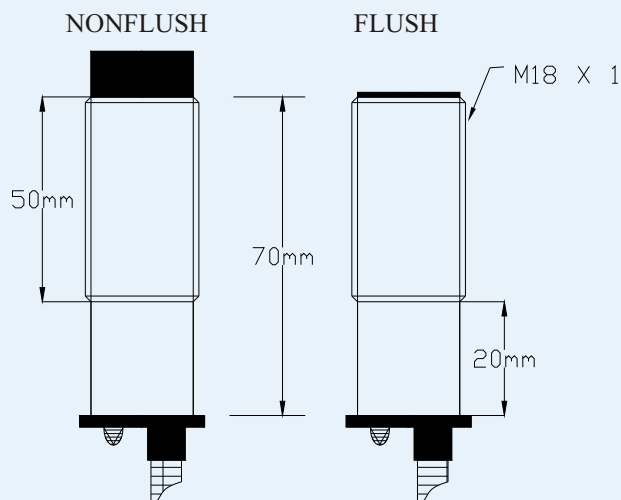
Specifications

Model Type	IPS-18	
Dimensions (mm)	M18 × 1*	
Housing material	Brass, nickel-plated	
Indicator	Red LED	
Power supply	90 ... 230 V AC	
Control output	200mA	
Leakage current	Max. 0.9mA	
Switching output	AC	
Output function	NO or NC	
Installation	Flush	Non-flush
Sensing distance (mm)	5	8
Response frequency Hz	10	10
Hysteresis	10 % of Sn	
Ambient humidity	35 - 95% RH	
Ambient temperature	0 deg. C. to 70 deg. C.	

* Barrel thread pitch 1mm

Please contact factory for customize product

Specifications are subject to change without prior intimation

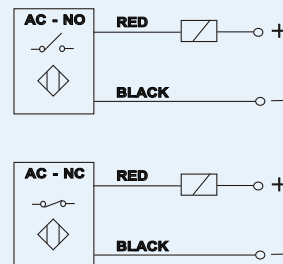


Standard Model:

IPS-BBRN18-AO20W02
IPS-BBRF18-AO20W02

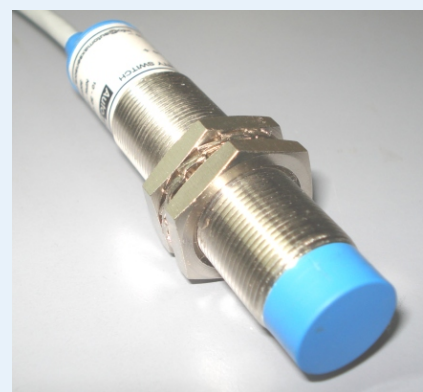
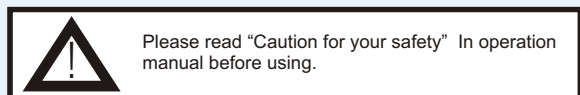
IPS-BBRN18-AC20W02
IPS-BBRF18-AC20W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Enhanced noise - Resistance by using exclusive IC (DC Power)
- Application: Dancing , CAM profile



Ordering information (cylindrical Analogue DC power switch)

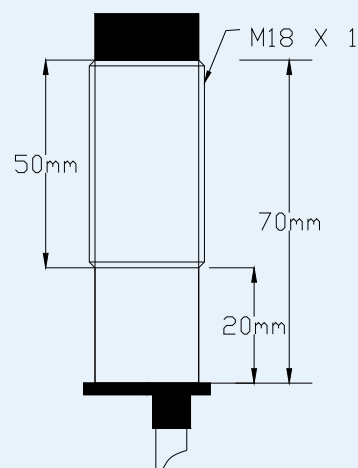
IPS	B	BR	N	18	V	ANS	W	02
Inductive proximity switch	B-Brass P-Plastic	BR-Barrel	N-Nonflush	Indicate size(mm) barrel dia.	V-Voltage I-Current	ANS-Analog	W-Wire	Cable length (mtr.)

Specifications

Model Type	IPS-18
Dimensions (mm)	M18 × 1*
Housing material	Brass, nickel-plated
Power supply	15V DC
Current Consumption	<15mA
Load Resistance	≥ 4K7 Ohm
Output Type	Analogue
Output	0...10V DC(over Full range)
Sensing distance (mm)	2....7 mm
Response frequency Hz	1 KHz
Hysteresis	3 to 15%
Linearity Error	3 to 3.25%
Repeatability	0.03
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

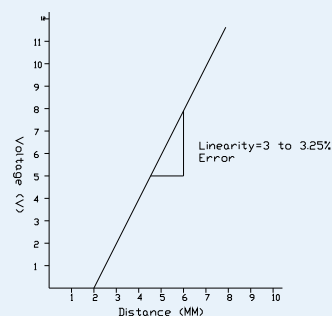
* Barrel thread pitch 1mm

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Specifications are subject to change without prior intimation

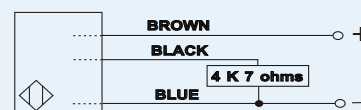


Standard Model:

IPS-BBRN18-VANSW02
IPS-BBRN18-IANSW02

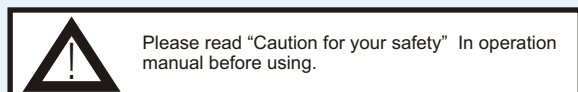


Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Built in the sensitivity Adjustment VR
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (Cylindrical DC power switch)

PPS	B	BR	D	12	P	O	30	W	02
Photo-electric Sensor	B-Brass P-Plastic	BR-Barrel BL-Block SL-Slot	D-Diffuse T-Through R-Retro Refelective	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC D-NO/NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn- ector	Cable length (mtr.)

Specifications (Diffuse Beam)

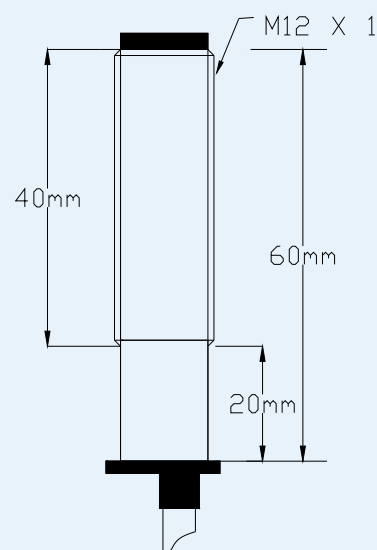
Model Type	PPS-12
Dimensions (mm)	M12 X 1*
Housing material	Brass, Nickel-plated
Indicator	Red LED
Power supply	10 ... 30 V DC
Control output	300mA
Leakage current	Max. 0.9mA
Switching output	PNP or NPN
Output function	NO or NC
Light Source	Infrared LED (modulated)
Sensing distance (mm)	20 ... 100 mm (Adjustable)**
Response frequency Hz	100
Hysteresis	10 ... 15% of Sn
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

* Barrel thread pitch 1mm

** For Snow white Paper

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Specifications are subject to change without prior intimation

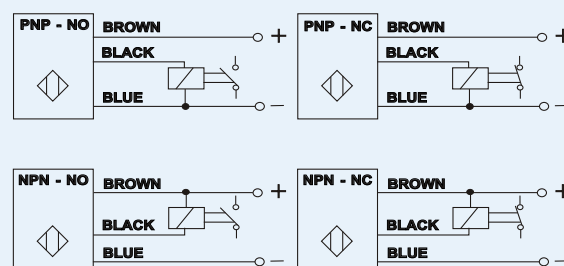


Standard Model:

PPS-BBRD12-PO30W02
PPS-BBRD12-NO30W02

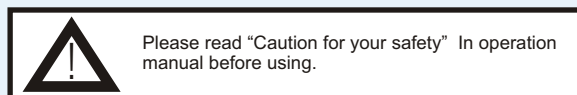
PPS-BBRD12-PC30W02
PPS-BBRD12-NC30W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Built in the sensitivity Adjustment VR
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (Cylindrical DC power switch)

PPS	B	BR	D	18	P	O	30	W	02
Photo-electric Sensor	B-Brass P-Plastic	BR-Barrel BL-Block SL-Slot	D-Diffuse T-Through R-Retro Refelective	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC D-NO/NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn- ector	Cable length (mtr.)

Specifications (Diffuse Beam)

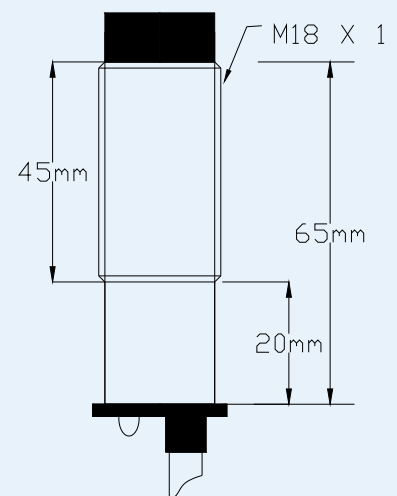
Model Type	PPS-18
Dimensions (mm)	M18 X 1*
Housing material	Brass, Nickel-plated
Indicator	Red LED
Power supply	10 ... 30 V DC
Control output	300mA
Leakage current	Max. 0.9mA
Switching output	PNP or NPN
Output function	NO or NC
Light Source	Infrared LED (modulated)
Sensing distance (mm)	50 ... 200 mm (Adjustable)**
Response frequency Hz	100
Hysteresis	10 ... 15% of Sn
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

* Barrel thread pitch 1mm

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Please contact factory for customize product

Specifications are subject to change without prior intimation

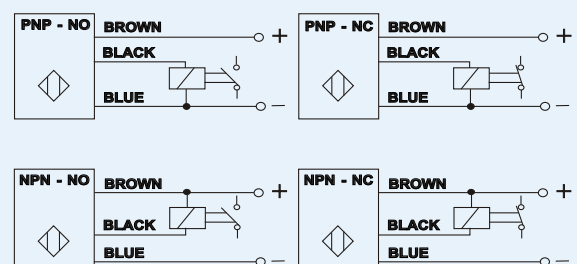


Standard Model:

PPS-BBRD18-PO30W02
PPS-BBRD18-NO30W02

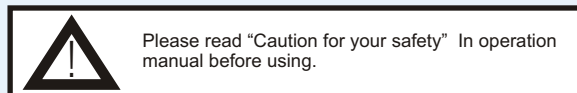
PPS-BBRD18-PC30W02
PPS-BBRD18-NC30W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Built in the sensitivity Adjustment VR
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (Cylindrical DC power switch with Connector)

PPS	B	BR	D	18	P	O	30	C	12
Photo-electric Sensor	B-Brass P-Plastic	BR-Barrel BL-Block SL-Slot	D-Diffuse T-Through R-Retro Refective	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC D-NO/NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn- ector	Connector Size

Specifications (Diffuse Beam)

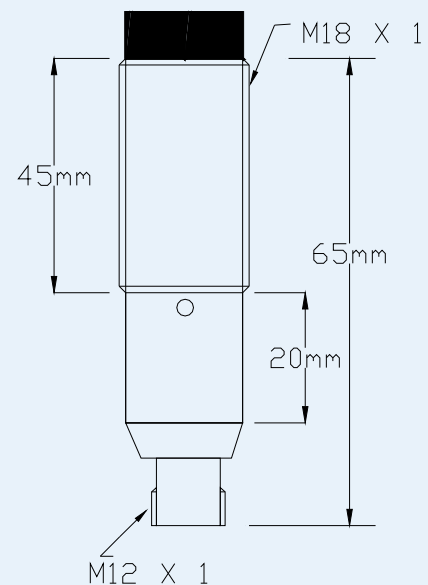
Model Type	PPS-18
Dimensions (mm)	M18 X 1*
Housing material	Brass, Nickel-plated
Indicator	Red LED
Power supply	10 ... 30 V DC
Control output	300mA
Leakage current	Max. 0.9mA
Switching output	PNP or NPN
Output function	NO or NC
Light Source	Infra Red (Led modulated)
Sensing distance (mm)	50 ... 200 mm (Adjustable)**
Response frequency Hz	100
Hysteresis	10 ... 15% of Sn
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

* Barrel thread pitch 1mm

** For Snow white Paper

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Specifications are subject to change without prior intimation



Standard Model:

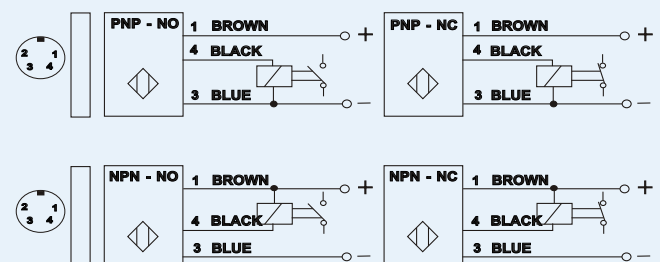
PPS-BBRD18-PO30C12

PPS-BBRD18-PC30C12

PPS-BBRD18-NO30C12

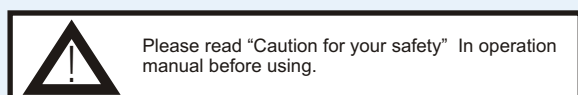
PPS-BBRD18-NC30C12

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Built in the sensitivity Adjustment VR
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (Cylindrical DC power switch)

PPS	B	BR	D	30	P	O	30	W	02
Photo-electric Sensor	B-Brass	BR-Barrel BL-Block SL-Slot	D-Diffuse T-Through R-Retro Refelective	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC D-NO/NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn- ector	Cable length (mtr.)

Specifications (Diffuse Beam)

Model Type	PPS-30
Dimensions (mm)	M30 X 1*
Housing material	Brass, Nickel-plated
Indicator	Red LED
Power supply	10 ... 30 V DC
Control output	300mA
Leakage current	Max. 0.9mA
Switching output	PNP or NPN
Output function	NO or NC
Light Source	Infrared LED (modulated)
Sensing distance (mm)	500 ... 1500 mm (Adjustable)**
Response frequency Hz	100
Hysteresis	10 ... 15% of Sn
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

* Barrel thread pitch 1mm

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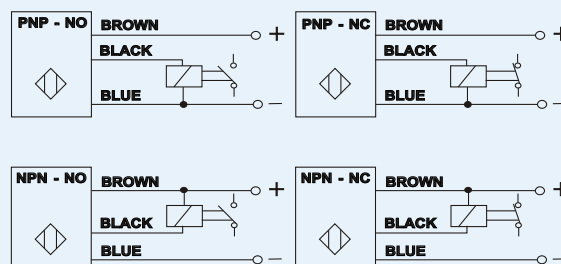
Specifications are subject to change without prior intimation

Standard Model:

PPS-BBRD18-PO30W02
PPS-BBRD18-NO30W02

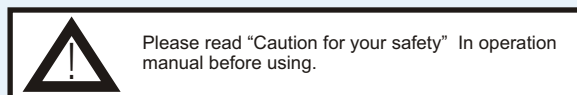
PPS-BBRD18-PC30W02
PPS-BBRD18-NC30W02

Connection detail



Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Built in the sensitivity Adjustment VR
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Size : (Length) 20 X (Height) 30 X (Width) 14 mm

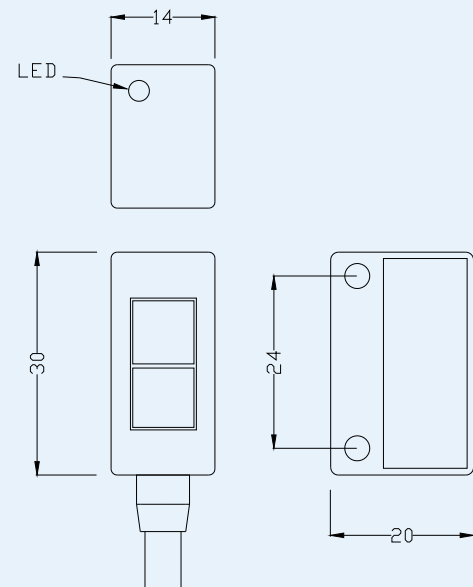
Ordering information (Block type DC power switch)

PPS	P	BL	D	20	P	O	20	W	02
Photo-electric Sensor	B-Brass P-Plastic	BR-Barrel BL-Block SL-Slot	D-Diffuse T-Through R-Retro Refelective	Indicate size(mm) barrel dia.	P-PNP N-NPN	O-NO C-NC D-NO/NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn.	Cable length (mtr.)

Specifications (Diffuse Beam)

Model Type	Miniature
Dimensions (mm)	L 20 X W 14 X H 30
Housing material	Engg. Plastic
Indicator	Red LED
Power supply	10 ... 30 V DC
Control output	300mA
Leakage current	Max. 0.9mA
Switching output	PNP or NPN
Output function	NO or NC
Light Source	Infrared LED (modulated)
Sensing distance (mm)	20 ... 180 mm (Adjustable)**
Response frequency Hz	100
Hysteresis	10 ... 15% of Sn
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

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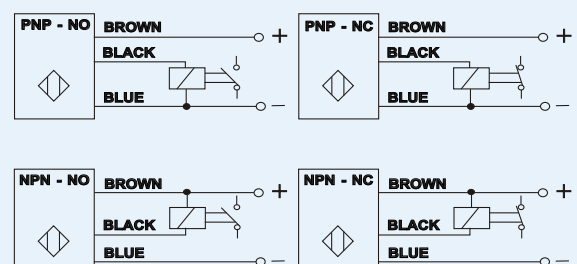


Standard Model:

PPS-PBLD20-PO30W02
PPS-PBLD20-NO30W02

PPS-PBLD20-PC30W02
PPS-PBLD20-NC30W02

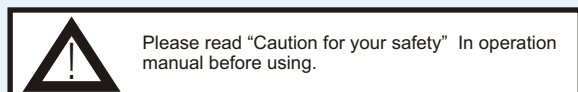
Connection detail



Please contact factory for customize product
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Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Built in the sensitivity Adjustment VR
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Size : (Length) 55 X (Height) 50 X (Width) 17 mm

Ordering information (Block type DC power switch)

PPS	P	BL	D	55	P	O	20	W	02
Photo-electric Sensor	B-Brass P-Plastic	BR-Barrel BL-Block SL-Slot	D-Diffuse T-Through R-Retro Refelective	Indicate size(mm) barrel dia./ Block length	P-PNP N-NPN	O-NO C-NC D-NO/NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire C-Conn.	Cable length (mtr.)

Specifications (Diffuse Beam)

Model Type	Block
Dimensions (mm)	L 55 X W 17 X H 50
Housing material	Engg. Plastic
Indicator	LED
Power supply	10 ... 30 V DC
Control output	300mA
Leakage current	Max. 0.9mA
Switching output	PNP or NPN
Output function	NO or NC
Light Source	Infrared LED (modulated)
Sensing distance (mm)	50 ... 200 mm (Adjustable)**
Response frequency Hz	100
Hysteresis	10 ... 15% of Sn
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

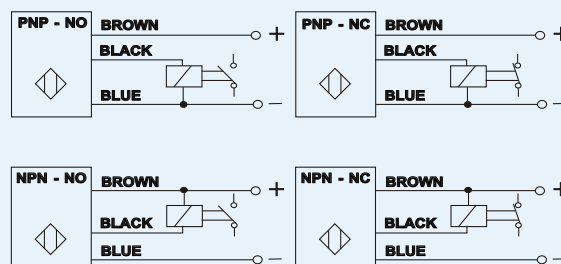
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Standard Model:

PPS-PBLD55-PO30W02
PPS-PBLD55-NO30W02

PPS-PBLD55-PC30W02
PPS-PBLD55-NC30W02

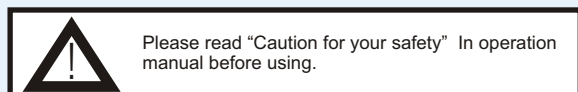
Connection detail



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Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a red indicator lamp
- Wide range of applications(for replacement of micro switch, limit switch, etc.)
- Ip67 (IEC standard)
- Built in the sensitivity Adjustment VR
- Enhanced noise - Resistance by using exclusive IC (DC Power)



Ordering information (Fork (Slot) DC power switch)

PPS	P	SL	D	03	P	D	30	W	02
Photo-electric Sensor	P- Plastic	SL-Slot	T-Through	Indicate size(mm) Slot size	P-PNP N-NPN	O-NO C-NC D-NO/NC	20-200mA 30-300mA 50-500mA (Load current)	W-Wire	Cable length (mtr.)

Specifications (Through Beam)

Model Type	PPS-SL
Dimensions (mm)	-
Housing material	Engg. Plastic
Indicator	Red LED
Power supply	10 ... 30 V DC
Control output	300mA
Leakage current	Max. 0.9mA
Switching output	PNP or NPN
Output function	NO/NC (Selectable)
Light Source	Infrared LED (modulated)
Sensing distance (mm)	as per Slot size
Response frequency Hz	50
Hysteresis	10 ... 15% of Sn
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 70 deg. C.

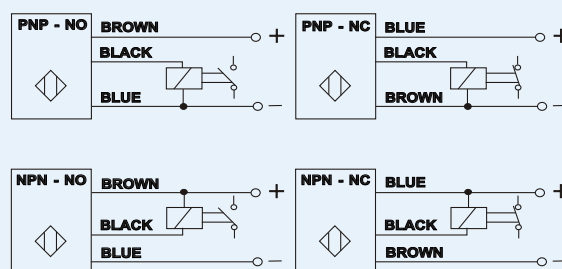


Standard Model:

PPS-PSLT03-PD30W02
PPS-PSLT03-ND30W02

PPS-PSLT20-PD30W02
PPS-PSLT20-ND30W02

Connection detail

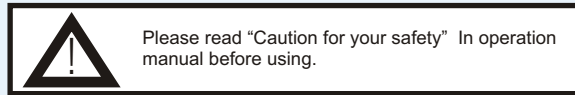


(To get NC output exchange the supply polarity)

Please contact factory for customize product
Specifications are subject to change without prior intimation

Features

- Reverse polarity protection and overload protection(DC)
- Operation confirmed easily by a indicator lamp
- NO / NC (Light ON / Dark ON : selection by switch)
- Built in the sensitivity Adjustment VR
- Enhanced noise - Resistance by using exclusive IC (DC Power)



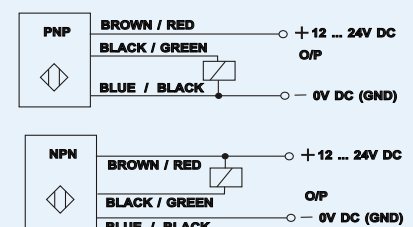
Ordering information

PPS	M	P	W	02
Photo electric sensor	Mark	P-PNP N-NPN	W-Wire C-Conn.	Cable length (mtr.)

Specifications (Diffuse Beam)

Model	Registration Mark Sensor
Dimensions (mm)	93 X 67 X 37
Housing material	Metal
Power supply	12 ... 24V DC
Max. Load current	200mA
No load current	12 to 17 mA
Switching output	PNP or NPN
Output function	NO or NC (Light ON / Dark ON : selection by switch)
Small spot diameter	2mm
Light Source	White
Scanning Range	10 ... 14mm
Switching frequency	500Hz
Protection circuit	Overload, short circuit & reverse polarity protection
Protection	IP67

Connection detail



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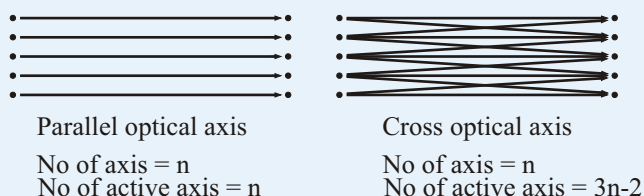
The mark sensor (contrast sensor or registration sensor) is a highly specialized diffuse proximity photoelectric sensor. It has the ability to detect subtle changes in contrast on a surface. Unlike standard energetic diffuse photoelectric sensor, this type uses a powerful lens system that must be positioned at specific focal distance from the target. Contrast detection is widely used in the packing and material control industries to identify index marks of various colors, and presence of labels on shiny surfaces. Contrast detection sensors have fast response times and the capability to detect marks that pass by the sensor at extreme speeds.

Features

- Available with Parallel optical axis & Cross optical axis
- Polished design with size - W36 X T42 X H(*)
- Long detecting distance up to 3M **
- Wide range of applications- For safety in dangerous operating areas on automatic machines, plants, power presses, shears, bending machines etc.
- Flexible fixing mounting arrangements to suit individual requirement
- Operation confirmed easily by a indicator lamp
- Reverse polarity protection and overload protection(DC)

Ordering information (12-24V DC operated Safety Guards)

PSG	0120	P	04
Photo-electric Safety Guards	Sensing Height	P-Parallel axis C-Cross axis	Number of axis



Specifications (Through Beam)

Model Type	PSG
Cross section dimensions (mm)	36 X 42
Sensing Height (mm)	90 - 1550
Indicator For Output & each axis	LED
Number of optical axes	4-6-8-10-16-24-32
Optical axis pitch (mm)	11-20-30-40-50-90
Light Source	Infrared LED (modulated)
Sensing distance (meters)	Up to 3 (Adjustable)
Power supply	12 ... 24 V DC
Control output	PNP
Switching output	To direct PLCs / Controllers
Response time	Min. 16mS
Mounting	Slot up to full height
Ambient humidity	35 ... 95% RH
Ambient temperature	0 deg. C. to 60 deg. C.

* Higher sensing heights available for customized order.

** Higher range available on demand.

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Specifications are subject to change without prior intimation



Model no. (Parallel axis)	Model no. (Cross axis)	Body height (mm)
PSG0090P04	PSG0090C10	180
PSG0120P04	PSG0120C10	210
PSG0150P04	PSG0150C10	240
PSG0150P06	PSG0150C16	240
PSG0200P06	PSG0200C16	290
PSG0250P06	PSG0250C16	340
PSG0210P08	PSG0210C22	290
PSG0280P08	PSG0280C22	365
PSG0350P08	PSG0350C22	435
PSG0270P10	PSG0270C28	360
PSG0360P10	PSG0360C28	450
PSG0450P10	PSG0450C28	540
PSG0450P16	PSG0450C46	530
PSG0600P16	PSG0600C46	685
PSG0750P16	PSG0750C46	835
PSG0690P24	PSG0690C70	770
PSG0920P24	PSG0920C70	1005
PSG1150P24	PSG1150C70	1235
PSG0930P32	PSG0930C94	1010
PSG1240P32	PSG1240C94	1325
PSG1550P32	PSG1550C94	1635

