

▶ inductive sensor, high temperature

PRODUCT: devices with thread: stainless steel
flush, non-flush

DESIGN: 08 M8x1
12 M12x1
18 M18x1
30 M30x1.5

* as option down to -40°C

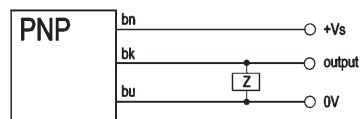
**high temperature
sensors
 -25°C^* to $+230^{\circ}\text{C}$**



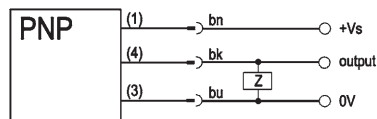
- innovation by *ipf electronic*
- stainless steel housing
- devices up to 180°C with integrated amplifier
- short circuit and reverse polarity protection
- devices with thread according to EURONORM
- high sampling frequency
- connection with silicon cable or Lemos connector
- 2 year warranty!
- delivery in storage box

Technical data	DC
current consumption	$< 15\text{mA}$
voltage drop (max. load)	$< 2.2\text{V}$
operating voltage	see list of articles
current carrying capacity	see list of articles
sampling frequency	see list of articles
nominal sensing range S_n	see list of articles
real sensing range S_r	$S_n \pm 15\%$ (target to EN 60947-5-2)
hysteresis	3% to 20% of S_n
system of protection	IP65 to EN 60529
ambient temperature	see list of articles
connection	2m silicon cable, Lemos connector
correction value	stainless steel ≈ 0.7 Ms, Al ≈ 0.4 Cu ≈ 0.3

Connection cable



connector



wire colours: bn = brown (1), bu = blue (3), bk = black (4)

Fig. 1 cable

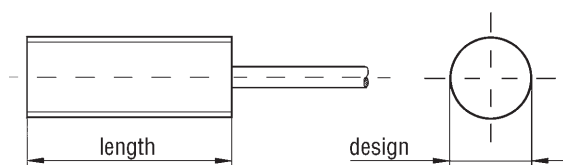
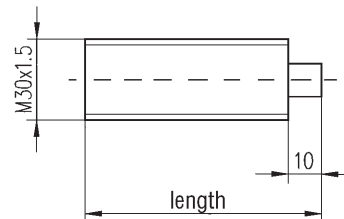


Fig. 2 connector (Lemosa)



For design and length see list of articles.

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article-no.	design	description	comment	length	housing	voltage	output	current	sn	connection	fig.
IB080150	M8x1	flush	140°C, 800Hz	60	stainless steel	10-35V DC	pnnp,no	80mA	2	silicon cable	1
IB120155	M12x1	flush	130°C, 500Hz	56	stainless steel	10-35V DC	pnnp,no	120mA	3	silicon cable	1
IN120155	M12x1	non-flush	130°C, 500Hz	65	stainless steel	10-35V DC	pnnp,no	120mA	4	silicon cable	1
IB120150	M12x1	flush	150°C, 500Hz	56	stainless steel	10-35V DC	pnnp,no	120mA	3	silicon cable	1
IN120150	M12x1	non-flush	150°C, 500Hz	65	stainless steel	10-35V DC	pnnp,no	120mA	4	silicon cable	1
IB180155	M18x1	flush	130°C, 500Hz	70	stainless steel	10-35V DC	pnnp,no	150mA	5	silicon cable	1
IN180155	M18x1	non-flush	130°C, 500Hz	78	stainless steel	10-35V DC	pnnp,no	150mA	8	silicon cable	1
IB180150	M18x1	flush	180°C, 500Hz	70	stainless steel	10-35V DC	pnnp,no	150mA	5	silicon cable	1
IN180150	M18x1	non-flush	180°C, 500Hz	78	stainless steel	10-35V DC	pnnp,no	150mA	8	silicon cable	1
IB300155	M30x1.5	flush	130°C, 200Hz	70	stainless steel	10-35V DC	pnnp,no	150mA	10	silicon cable	1
IN300155	M30x1.5	non-flush	130°C, 200Hz	79	stainless steel	10-35V DC	pnnp,no	150mA	15	silicon cable	1
IB300145	M30x1.5	flush	130°C, 200Hz	84	stainless steel	10-35V DC	pnnp,no	150mA	10	Lemosa connector	2
IN300145	M30x1.5	non-flush	130°C, 200Hz	91	stainless steel	10-35V DC	pnnp,no	150mA	15	Lemosa connector	2
IB300150	M30x1.5	flush	180°C, 200Hz	70	stainless steel	10-35V DC	pnnp,no	150mA	10	silicon cable	1
IN300150	M30x1.5	non-flush	180°C, 200Hz	79	stainless steel	10-35V DC	pnnp,no	150mA	15	silicon cable	1
IB300140	M30x1.5	flush	180°C, 200Hz	84	stainless steel	10-35V DC	pnnp,no	150mA	10	Lemosa connector	2
IN300140	M30x1.5	non-flush	180°C, 200Hz	91	stainless steel	10-35V DC	pnnp,no	150mA	15	Lemosa connector	2
IB186050	M18x1	flush	230°C, 500Hz	30	stainless steel	connect. to amplifier			5	3m Teflon cable*	1
IB306050	M30x1.5	flush	230°C, 200Hz	70	stainless steel	connect. to amplifier			10	3m Teflon cable*	1
IV120150	M12x1	amplifier	-25°C to +70°C	55	stainless steel	7-35V DC	pnnp,no	400mA		PUR-cable*	w/o
VK500940	lemosa	accessory	cable socket		brass	3 pins	to180°C			5m silicon cable	w/o
VKA00940	lemosa	accessory	cable socket		brass	3 pins	to180°C			10m silicon cable	w/o

* The connection sensor to amplifier via cable socket (VK003024) and cable connector (VK003028) is included in the delivery!

High temperature sensors **up to 130°C with LED**, high temperature sensors **above 130°C without LED!**

The list of articles contains the standard DC-(pnp)version only. Kindly request the availability of other output functions.

Warning: Never use these devices in applications where the safety of a person depends on their functionality.