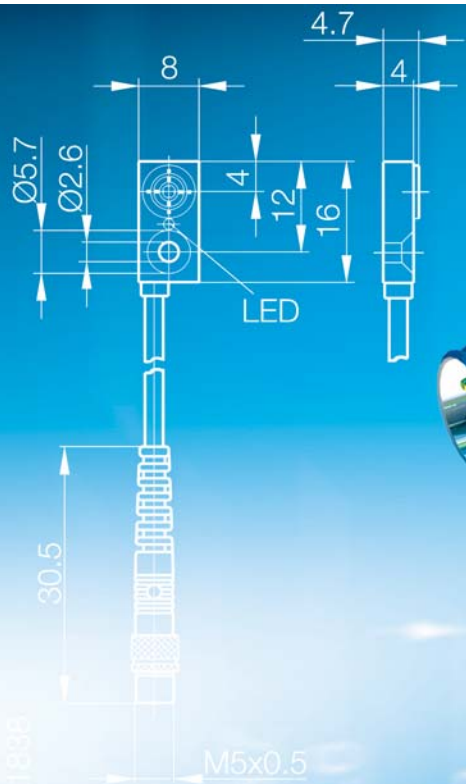


# BALLUFF

## Miniblock R04

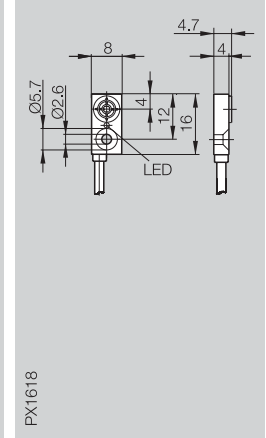
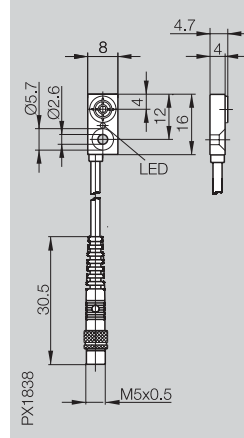
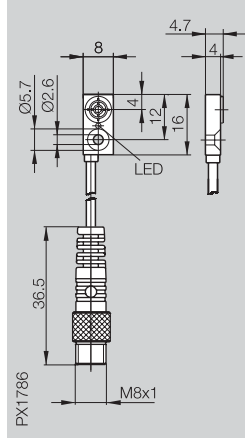
... mini size – maxi performance



# Inductive Sensors

DC 3-Wire  
 Quadraform Housings  
 s<sub>n</sub> 1.5 mm

Housing size	<b>8×16×4</b>	<b>8×16×4</b>	<b>8×16×4</b>
Mounting	flush	flush	flush
Rated operating distance s <sub>n</sub>	<b>1.5 mm</b>	<b>1.5 mm</b>	<b>1.5 mm</b>
Assured operating distance s <sub>a</sub>	0...1.2 mm	0...1.2 mm	0...1.2 mm



## Mini size – maxi performance

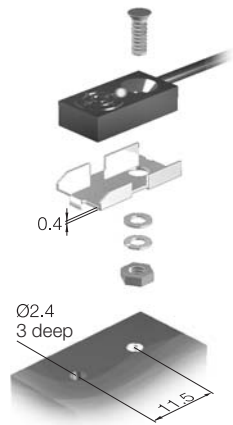
- Very compact size with large sensing distance
- Short footprint in sensing direction

PNP	Normally-open	BES R04KC-PSC15B-S49-00,13	BES R04KC-PSC15B-S26-00,2	BES R04KC-PSC15B-EV05
	Normally-closed	BES R04KC-POC15B-S49-00,13	BES R04KC-POC15B-S26-00,2	BES R04KC-POC15B-EV05
NPN	Normally-open	BES R04KC-NSC15B-S49-00,13	BES R04KC-NSC15B-S26-00,2	BES R04KC-NSC15B-EV05
	Normally-closed	BES R04KC-NOC15B-S49-00,13	BES R04KC-NOC15B-S26-00,2	BES R04KC-NOC15B-EV05

Rated operational voltage U <sub>o</sub>	24 V DC	24 V DC	24 V DC
Supply voltage U <sub>B</sub>	5...30 V DC	5...30 V DC	5...30 V DC
Voltage drop U <sub>d</sub> at I <sub>o</sub>	≤ 1.5 V	≤ 1.5 V	≤ 1.5 V
Rated insulation voltage U <sub>i</sub>	75 V DC	75 V DC	75 V DC
Rated operational current I <sub>o</sub>	100 mA	100 mA	100 mA
No-load supply current I <sub>o</sub> max.	≤ 10 mA	≤ 10 mA	≤ 10 mA
Off-state current I <sub>r</sub>	≤ 50 µA	≤ 50 µA	≤ 50 µA
Protected against polarity reversal	no	no	no
Short circuit protected	yes	yes	yes
Load capacity	≤ 0.1 µF	≤ 0.1 µF	≤ 0.1 µF
Repeat accuracy R	≤ 1 %	≤ 1 %	≤ 1 %
Ambient temperature range T <sub>a</sub>	-25...+70 °C	-25...+70 °C	-25...+70 °C
Frequency of operating cycle f	1000 Hz	1000 Hz	1000 Hz
Utilization category	DC 13	DC 13	DC 13
Function indication	yes	yes	yes
Degree of protection per IEC 60529	IP 67	IP 67	IP 67
Housing material	PA 6	PA 6	PA 6
Material of sensing face	PA 6	PA 6	PA 6
Connection	0.13 m cable with connector, PUR	0.2 m cable with connector, PUR	5 m cable, PVC
No. of wires × conductor cross section			3×0.09 mm <sup>2</sup>

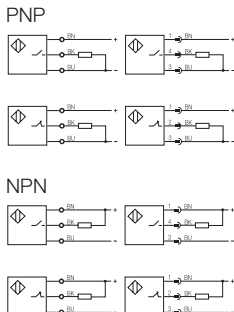
## Mounting bracket BES R04-MF-01

please order separately



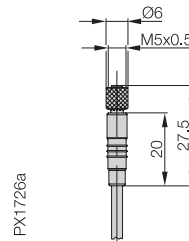
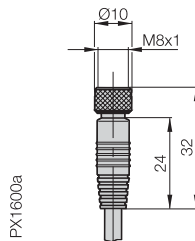
(Fastening parts not included)

## Wiring diagrams



## Recommended connector

Connector	<b>BKS-B 48</b>	<b>BKS-B 25</b>
Type	straight	straight
Application	S49 sensors	S26 sensors



No LED, normally-open, (3-wire)		BKS-B 25-1-PU-03
No LED, normally-open or normally-closed (3-wire)	BKS-B 48-1-PU-03	
No LED, antivalent (4-wire)		BKS-B 25-3-PU-03
Supply voltage U <sub>B</sub>	10...30 V DC	30 V AC/DC
Cable	molded-on PUR	molded-on PUR
No. of wires × conductor cross section	3×0.25 mm <sup>2</sup>	3×0.14/4×0.14 mm <sup>2</sup>
Degree of protection per IEC 60529	IP 67	IP 67
Ambient temperature range T <sub>a</sub>	-20...+85 °C	-25...+85 °C

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