

BALLUFF

sensors worldwide

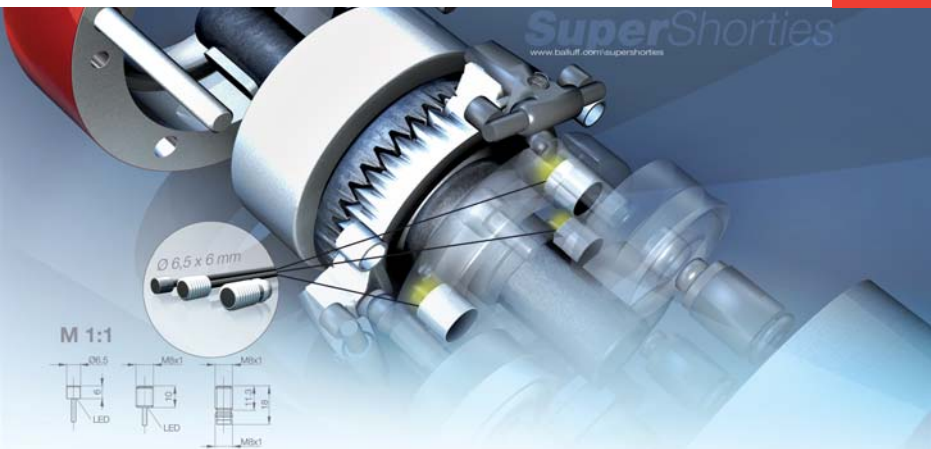
SuperShorties

... imagine the Possibilities



SuperShorties

www.balluff.com/supershorties



$\varnothing 6,5 \times 6 \text{ mm}$

M 1:1



**The "shortest" way to
inductive object detection**

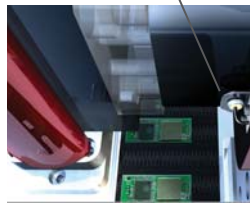
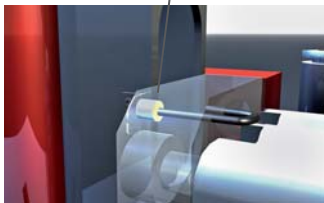
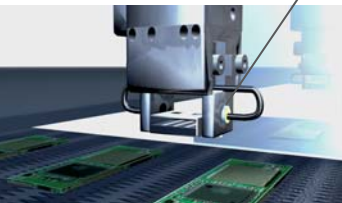
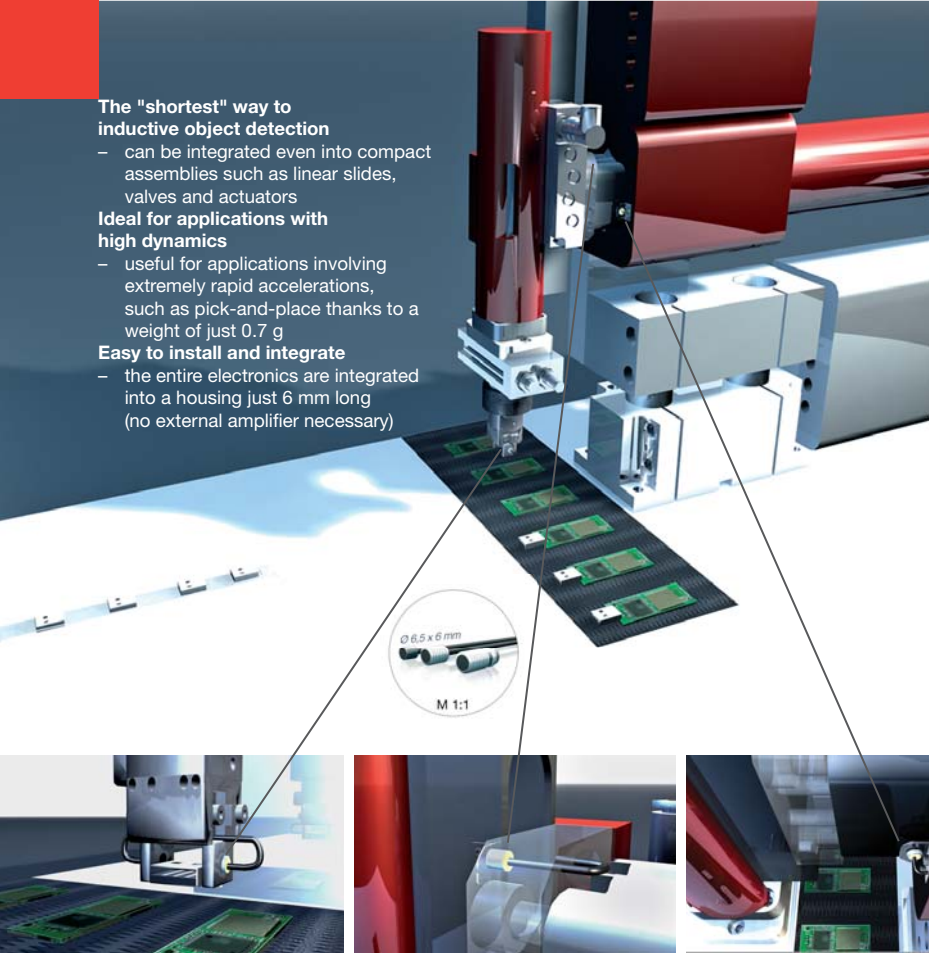
- can be integrated even into compact assemblies such as linear slides, valves and actuators

**Ideal for applications with
high dynamics**

- useful for applications involving extremely rapid accelerations, such as pick-and-place thanks to a weight of just 0.7 g

Easy to install and integrate

- the entire electronics are integrated into a housing just 6 mm long (no external amplifier necessary)

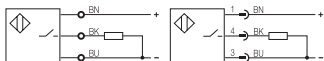


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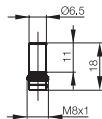
SuperShorties



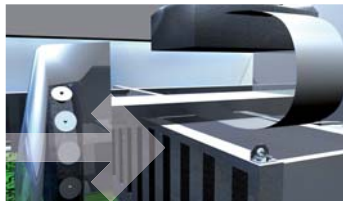
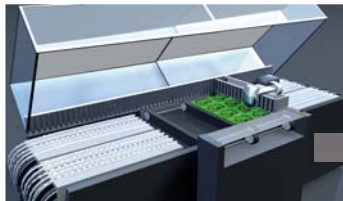
Housing size	Ø 6.5 mm	Ø 6.5 mm	
Installation type	flush	flush	
Rated operating distance s_n	1.5 mm	1.5 mm	
Assured operating distance s_a	0...1.2 mm	0...1.2 mm	
PNP N/O	BES G06EA-PSD15B-S49G	BES G06E60-PSC15B-EP02	
NPN N.O.	BES G06EA-NSD15B-S49G	BES G06E60-NSC15B-EP02	
LED function indicator	no	yes	
Connection type	connector	2 m cable PUR	
No. of wires x conductor cross section		3x0.073 mm ²	
Recommended connector	BKS- _ 48/BKS- _ 49		



CH0174a



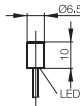
CH0170a





Ø 6.5 mm flush	M8×1 flush	M8×1 flush	M8×1 flush
1.5 mm	1.5 mm	1.5 mm	1.5 mm
0...1.2 mm	0...1.2 mm	0...1.2 mm	0...1.2 mm
BES G06EA-PSC15B-EP02 BES G06EA-NSC15B-EP02	BES M08EA-PSD15B-S49G BES M08EA-NSD15B-S49G	BES M08E60-PSC15B-EP02 BES M08E60-NSC15B-EP02	BES M08EA-PSC15B-EP02 BES M08EA-NSC15B-EP02
yes	no	yes	yes
2 m cable PUR	connector	2 m cable PUR	2 m cable PUR
3×0.073 mm ²	BKS-_ 48/BKS-_ 49	3×0.073 mm ²	3×0.073 mm ²

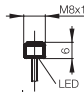
CH0171a



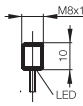
CH0172a



CH0172a



CH0173a



All models:

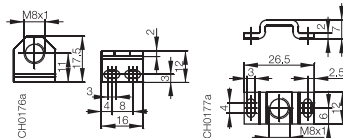
Supply voltage U_B	10...30 V DC
Voltage drop U_d at I_e	≤ 3 V
Rated insulation voltage U_i	75 V DC
Rated operational current I_e	150 mA
No-load supply current I_0 max.	≤ 10 mA PNP/≤ 14 mA NPN
Polarity reversal protected	yes
Short circuit protected	yes
Frequency of operating cycles f	3000 Hz
Housing material	stainless steel
Material of sensing face	POM
Approval	cULus

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Accessories

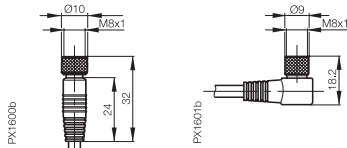


Holder/Size in mm	Mounting bracket 12x17.5x16	Mounting bracket 26.5x7x12
Order code	BES 08-HW-4	BES 08-HW-5
Material	stainless steel	stainless steel



Connector	BKS-B 48	BKS-B 49
Type	straight female	angle female
Use	connector type sensors S 49	connector type sensors S 49
no LED	BKS-B 48-1-_-_-	BKS-B 49-1-_-_-
with LED	BKS-B 48-4-_-_-	BKS-B 49-4-_-_-
Supply voltage U_B	10...30 V DC	10...30 V DC
Cable	molded-on PVC/PUR	molded-on PVC/PUR
No. of wires x conductor cross section	3x0.25 mm ²	3x0.25 mm ²
Protection per IEC 60529	IP 67	IP 67
Ambient temperature range T_a	-20...+85 °C	-20...+85 °C

Please append cable material and length to order code!
 PVC, standard length 3 m or 5 m = 03 or 05
 PUR, standard length 3 m or 5 m = PU-03 or PU-05
 Other cable properties or lengths on request.

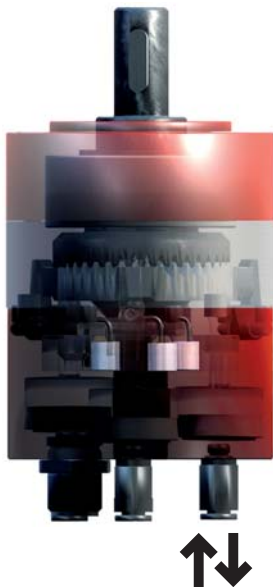


Inductive Sensors

SuperShorties

When space is at a premium

- Short design for integration in compact assemblies such as pneumatic motors



SuperShorties monitor the function of a pneumatic stepping motor

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