

BALLUFF

sensors worldwide

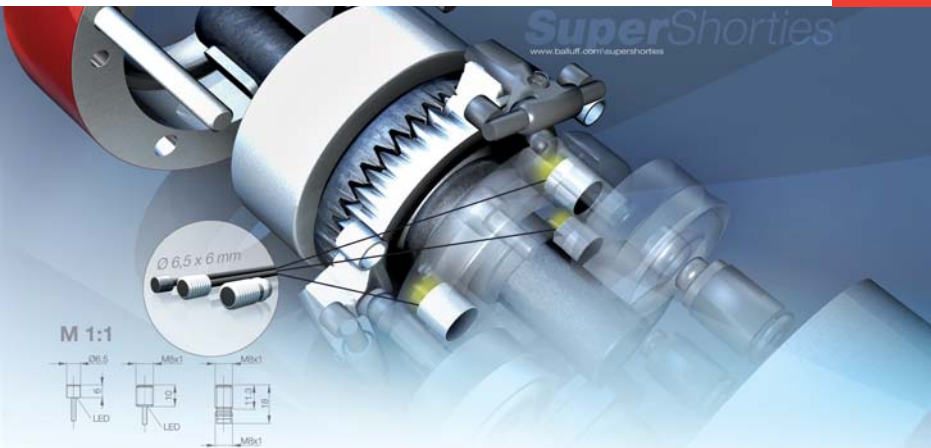
SuperShorties

... imagine the Possibilities



SuperShorties

www.balluff.com/supershorties



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

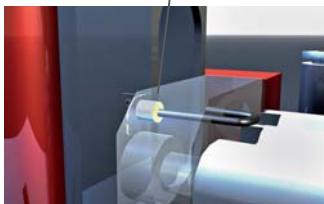
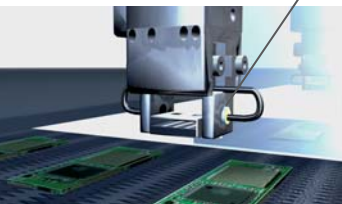
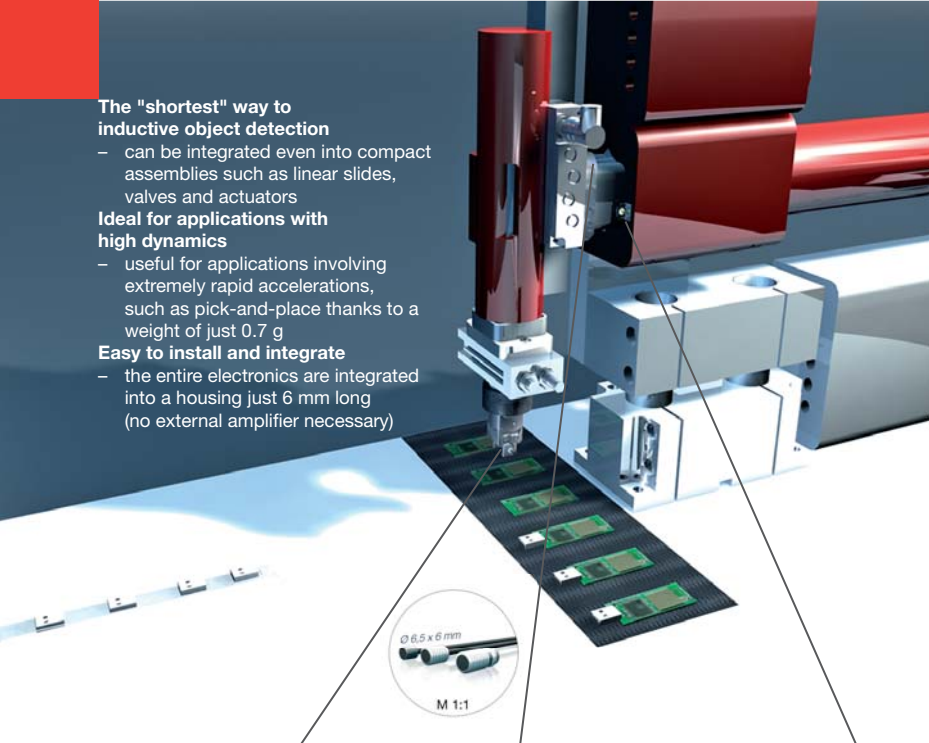
- can be integrated even into compact assemblies such as linear slides, valves and actuators

**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)

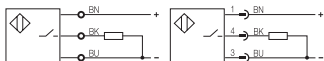


Inductive Sensors

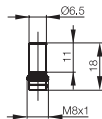
SuperShorties



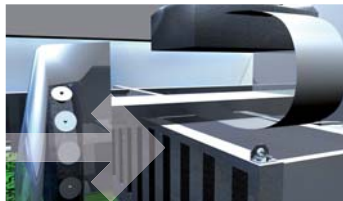
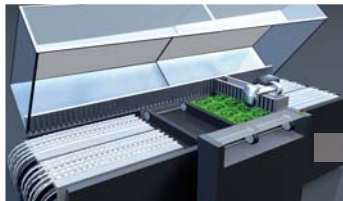
Housing size	Ø 6.5 mm	Ø 6.5 mm	
Installation type	flush	flush	
Rated operating distance s_n	1.5 mm	1.5 mm	
Assured operating distance s_a	0...1.2 mm	0...1.2 mm	
PNP N/O	BES G06EA-PSD15B-S49G	BES G06E60-PSC15B-EP02	
NPN N.O.	BES G06EA-NSD15B-S49G	BES G06E60-NSC15B-EP02	
LED function indicator	no	yes	
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



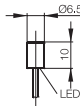
CH0170a





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

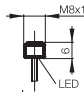
CH0171a



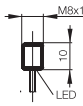
CH0172a



CH0172a



CH0173a



All models:

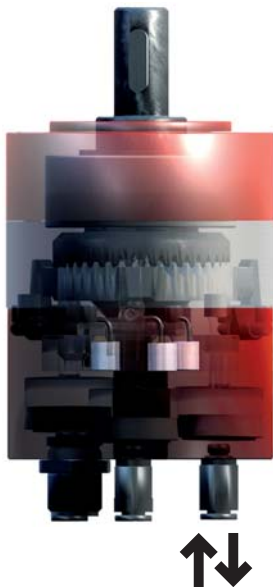
Supply voltage U_B	10...30 V DC
Voltage drop U_d at I_e	≤ 3 V
Rated insulation voltage U_i	75 V DC
Rated operational current I_e	150 mA
No-load supply current I_0 max.	≤ 10 mA PNP/≤ 14 mA NPN
Polarity reversal protected	yes
Short circuit protected	yes
Frequency of operating cycles f	3000 Hz
Housing material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

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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