

**Detect objects with the same high switching distance –
regardless of the material**

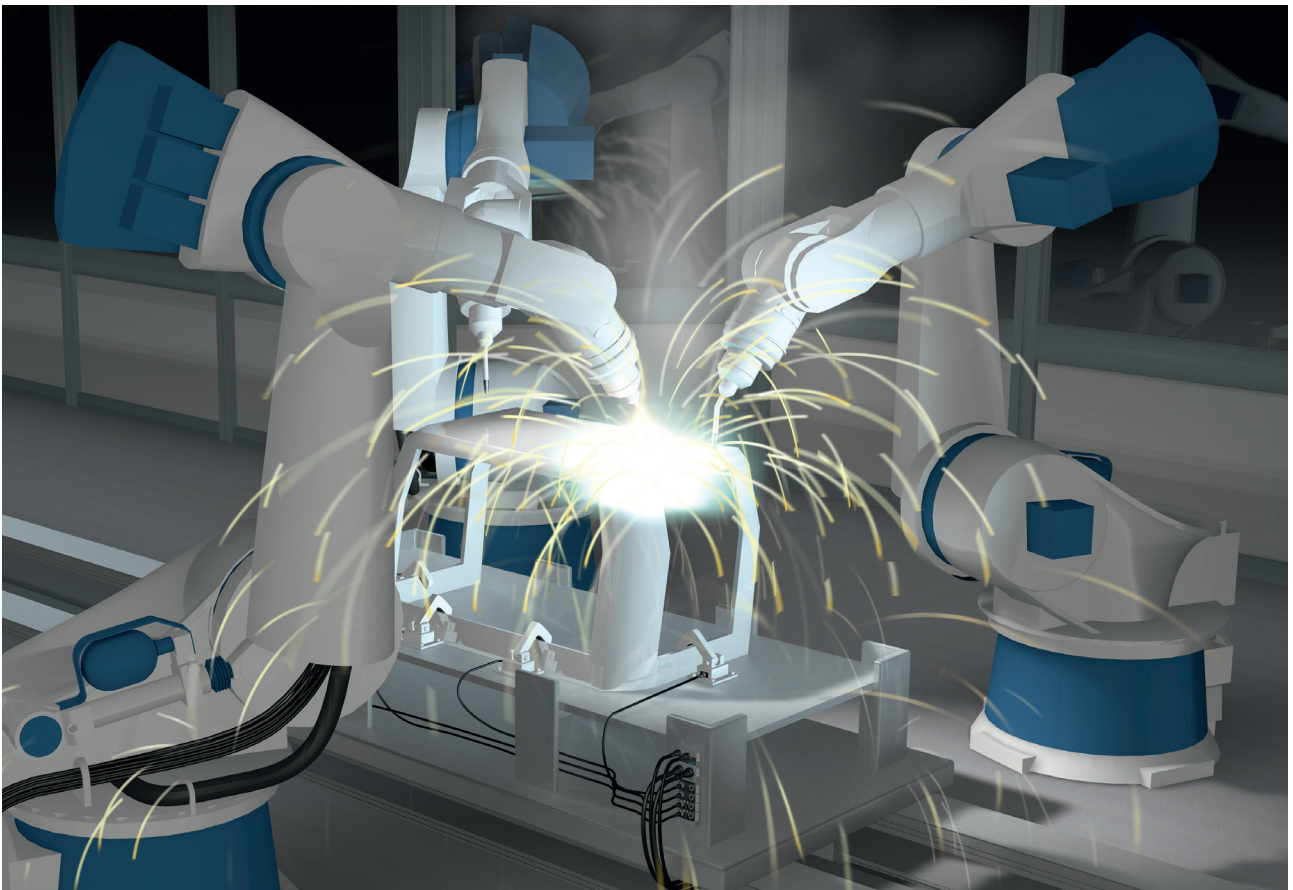
THE NEW GENERATION OF INDUCTIVE FACTOR 1 SENSORS

Factor 1 sensors detect objects made of steel, aluminum or brass with the identical switching distance (no reduction factor).

This characteristic offers advantages in applications where the material of the target objects can vary, or when alloys need to be detected at a great switching distance. Factor 1 sensors are magnetic field immune. This means their function is not impaired by strong electromagnetic fields (such as from induction hardening or welding equipment).

Features

- High switching distance for iron and alloys
- For harsh environments, magnetic-field immune and PTFE coated
- Meets the highest demands – IP68 enclosure rating and extended temperature range
- High-precision and flexible in use – even for changing objects



INDUCTIVE
FACTOR 1 SENSORS



	BES05AK	BES05AM	BES05AH
Type	M18 × 1	M18 × 1	M18 × 1
Installation type	Flush	Not flush	Flush
Output	PNP, NO	PNP, NO	PNP, NO
Switching distance	8 mm	12 mm	8 mm
Supply voltage	24 V DC	24 V DC	24 V DC
Switching frequency	2.500 Hz	2.500 Hz	2.500 Hz
Degree of protection	IP68	IP68	IP68
Ambient temperature	-40...+85°C	-40...+85°C	-40...+85°C
Housing material	Brass, PTFE coated	Brass, PTFE coated	Brass, PTFE coated
Material sensing surface	PBT	PBT	PBT, PTFE coated



	BES05AJ	BES05AL	
Type	M18 × 1	M18 × 1	
Installation type	Flush	Not flush	
Output	PNP, NO	PNP, NO	
Switching distance	8 mm	12 mm	
Supply voltage	24 V DC	24 V DC	
Switching frequency	2.500 Hz	2.500 Hz	
Degree of protection	IP68	IP68	
Ambient temperature	-40...+85°C	-40...+85°C	
Housing material	Brass, PTFE coated	Brass, PTFE coated	
Material sensing surface	PBT	PBT	

CONNECTOR



	BCC039M	BCC039P	BCC039Y	BCC03AO
Type	M12 female straight/ M12 male straight, 4 pin, 2 m Cable	M12 female straight/ M12 male straight, 4 pin, 5 m Cable	M12 female straight/ M12 male right-angle, 4 pin, 2 m Cable	M12 female straight/ M12 male right-angle, 4 pin, 5 m Cable