

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

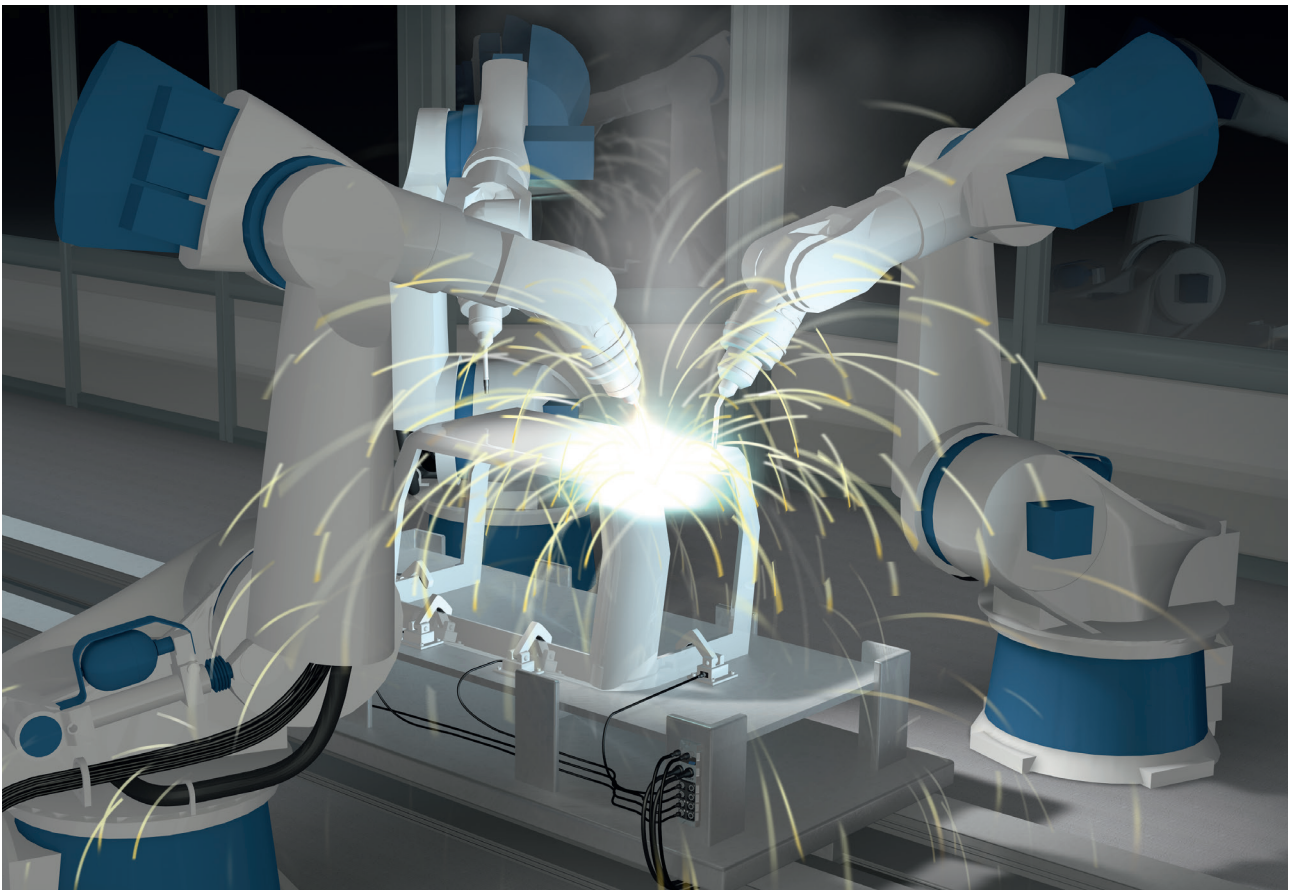
THE NEW GENERATION OF INDUCTIVE FACTOR 1 SENSORS

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



	BES05PP	BES05AM	BES05PN	BES05PR	BES05AL
Type	M18 × 1	M18 × 1	M18 × 1	M18 × 1	M18 × 1
Installation type	Flush	Not flush	Flush	Flush	Not flush
Output	PNP, NO	PNP, NO	PNP, NO	PNP, NO	PNP, NO
Switching distance	8 mm	12 mm	8 mm	8 mm	12 mm
Supply voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Switching frequency	2000 Hz	2000 Hz	2000 Hz	2000 Hz	2000 Hz
Degree of protection	IP68	IP68	IP68	IP68	IP68
Ambient temperature	-40...+85 °C	-40...+85 °C	-40...+85 °C	-40...+85 °C	-40...+85 °C
Housing material	Brass, PTFE coated	Brass, PTFE coated	Brass, PTFE coated	Brass, PTFE coated	Brass, PTFE coated
Material sensing surface	PBT	PBT	PBT, PTFE coated	PBT	PBT

ACCESSORIES



	BAM00FT	BAM022K	BAM00FC	BAM00FM
Description	Sensor mounts with positive stops for M18 sensors, fastening length 36 mm and longer	Sensor mounts with positive stops for M18 sensors, fastening length 40 mm and longer	Mounting clamp with positive stop for M18 sensors	Sensor mounts with positive stops for M18 sensors, fastening length 36 mm and longer
Additional features				Weld immune

CONNECTIVITY



	BCC0372	BCC0374	BCC037K	BCC0AKY
Cable	PUR black, 2 m, drag chain compatible	PUR black, 5 m, drag chain compatible	PUR black, 2 m, Drag chain compatible	PUR welding spark resistant Orange, 1.5 m, drag chain compatible
Connection 1	M12 female, straight, 5-pin, A-coded	M12 female, straight, 5-pin, A-coded	M12 female, angled, 5-pin, A-coded	M12 female, angled, 5-pin, A-coded
Connection 2	M12 male, straight, 3-pin, A-coded	M12 male, straight, 3-pin, A-coded	M12 male, straight, 3-pin, A-coded	M12 male, straight, 3-pin, A-coded