

Reliable and economical solutions to your applications

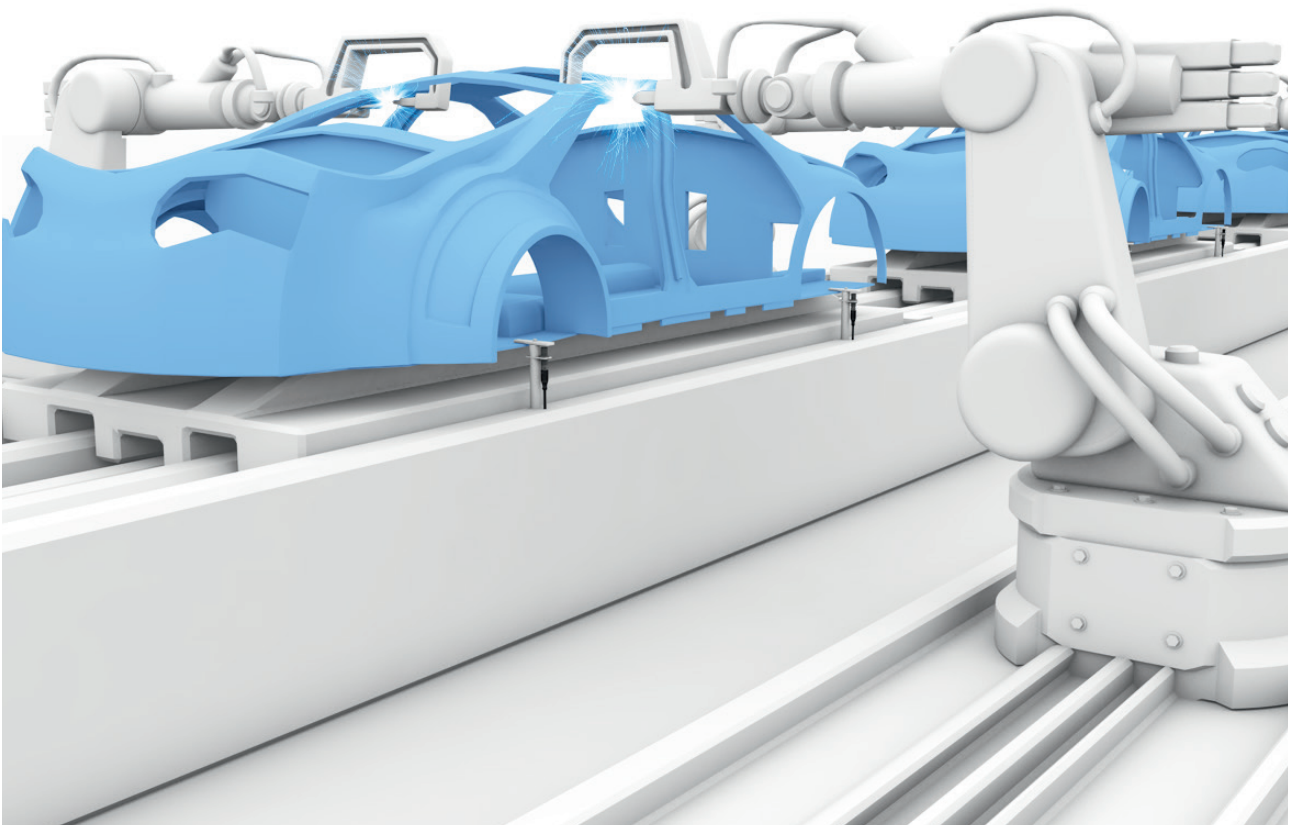
INDUCTIVE FACTOR 1 SENSORS

Our new inductive Factor 1 sensor family offers you a reliable and economical solution for your metal sensing applications. Factor 1 sensors detect any metal (including steel, aluminum or brass) with the identical switching distance. Take advantage of this feature to detect objects of changing materials in an application. In addition to the Factor 1 properties, these sensors feature an extended temperature range and are magnetic field immune. This ensures a fault-free process, even in the presence of strong electromagnetic fields. PTFE coated versions are available for applications in welding environments.

You can always rely on our Factor 1 sensors, even in harsh environments including near induction hardening or welding equipment.

Features

- Reduction factor 1
- Magnetic field immune
- Expanded temperature range
- PTFE coating for harsh environments



INDUCTIVE FACTOR 1 SENSORS



	BES05U4	BES05WC	BES05Y2	BES05WM	BES05WN	BES05Y1
Style	M12 × 1	M12 × 1	M12 × 1	M18 × 1	M18 × 1	M18 × 1
Installation	flush	non-flush	flush	flush	non-flush	flush
Output	PNP NO	PNP NO	PNP NO	PNP NO	PNP NO	PNP NO
Range	2 mm	4 mm	3 mm	5 mm	8 mm	5 mm
Operating voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Switching frequency	800 Hz	800 Hz	600 Hz	800 Hz	800 Hz	1000 Hz
IP rating	IP68	IP68	IP68	IP67	IP67	IP68
Ambient temperature	-40...+85 °C	-40...+70 °C	-40...+85 °C	-40...+85 °C	-25...+85 °C	-40...+85 °C
Housing material	Brass, nickel-free coated	Brass, nickel-free coated	Brass, PTFE coated	Brass, nickel-free coated	Brass, nickel-free coated	Brass, PTFE coated
Sensing face material	PBT	PBT	PBT, PTFE coated	PBT	PBT	PBT, PTFE coated

ACCESSORIES



	BAM0246	BAM01WZ	BAM022K	BAM00FC
Description	Proximity sensor mounts with positive stops for M12 sensors	Mounting clamp for M12 sensors	Proximity sensor mounts with positive stops for M18 sensors	Mounting clamp with positive stop for M18 sensors

CONNECTIVITY



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