

BES inductive sensors – Safety for people and equipment

RELIABLY DETECT METAL – RUGGED AND WEAR-FREE

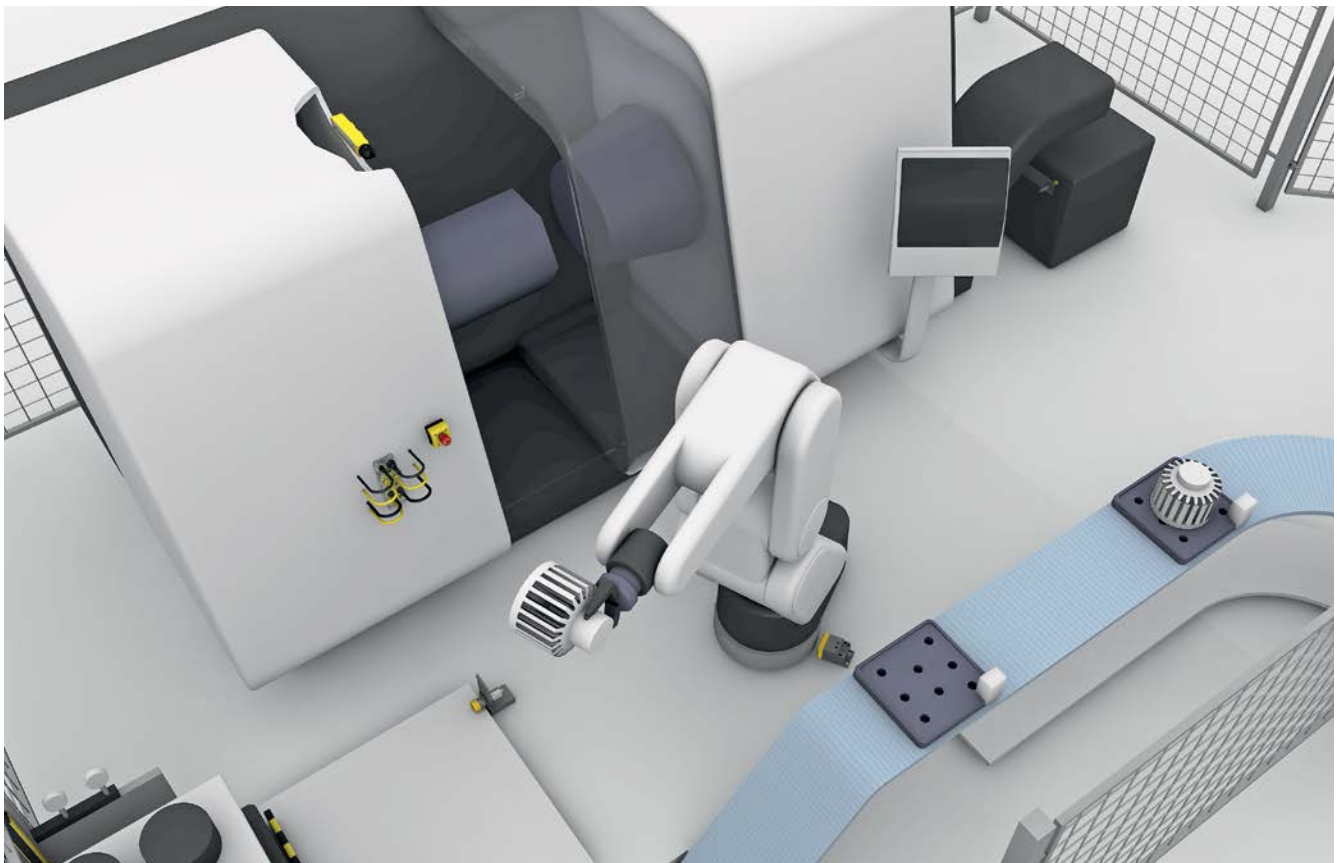
Inductive safety sensors detect the approach of metallic objects without contact. They provide the needed safety signals for position and end of travel.

These sensors are also ideal as pulse generators for counting tasks or speed detection. Unlike traditional safety switches they require no special mating part. This makes direct sensing of metallic workpiece carriers a simple and easy task.

Inductive safety switches can be connected to any safety processor, i.e. to safety relays, programmable logic modules or safety controllers. Wiring is simple using standardized M12 plug connections.

Features

- Reliably detect end position, speed and stopping
- Non-contact and wear-free
- Compact, familiar form factors from M12 to Q40
- Simple connection with M12 connector
- Easy linking to any processor using OSSD outputs



INDUCTIVE
SAFETY
SENSORS



	BES0574	BES0575	BES0576	BES0577
Performance Level/SIL	d/2	d/2	d/2	e/3
Safety Category	2	2	2	4
Dimensions	M12 × 70 mm	M18 × 70,5 mm	M18 × 70 mm	M30 × 80 mm
Installation	non-flush	non-flush	flush	non-flush
Switching distance	0.5...4 mm	1...8 mm	1...5 mm	6...12 mm
Degree of protection	IP67	IP67	IP67	IP68, IP69K
Switching output	PNP Normally closed (NC), PNP OSSD	PNP Normally closed (NC), PNP OSSD	PNP Normally closed (NC), PNP OSSD	2 × OSSD
Ambient temperature	-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+70 °C
Material housing	Stainless steel 1.4404	Stainless steel 1.4571	Brass	Stainless steel 1.4404
Connection	M12 connector, 4 pin	M12 connector, 4 pin	M12 connector, 4 pin	M12 connector, 4 pin



	BES0578	BES0579	BES057A	BES057C
Performance Level/SIL	d/2	d/2	e/3	e/3
Safety Category	2	2	4	4
Dimensions	M30 x 70 mm	M30 x 70 mm	40 x 40 x 66 mm	40 x 40 x 66 mm
Installation	non-flush	flush	flush/non-flush	non-flush
Switching distance	1...15 mm	1...10 mm	10...15 mm	4...20 mm
Degree of protection	IP67	IP67	IP67	IP67
Switching output	PNP Normally closed (NC), PNP OSSD	PNP Normally closed (NC), PNP OSSD	2 × OSSD	2 × OSSD
Ambient temperature	-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+60 °C
Material housing	Stainless steel 1.4571	Brass	Zinc die-casting	Zinc die-casting
Connection	M12 connector, 4 pin	M12 connector, 4 pin	M12 connector, 4 pin	M12 connector, 4 pin

CONNECTOR



1 M CABLE	BCC05LU	BCC05NY
2 M CABLE	BCC05LY	BCC05P0
5 M CABLE	BCC05M1	BCC05P2
Type	M12 female straight, 5 pin/M12 male straight, 4 pin,	M12 female straight, 5 pin/M12 male right-angle, 4 pin,