

Safely and reliably detect objects in explosion protected areas

INDUCTIVE EX SENSORS WITH cCSAus APPROVAL FOR NORTH AMERICA

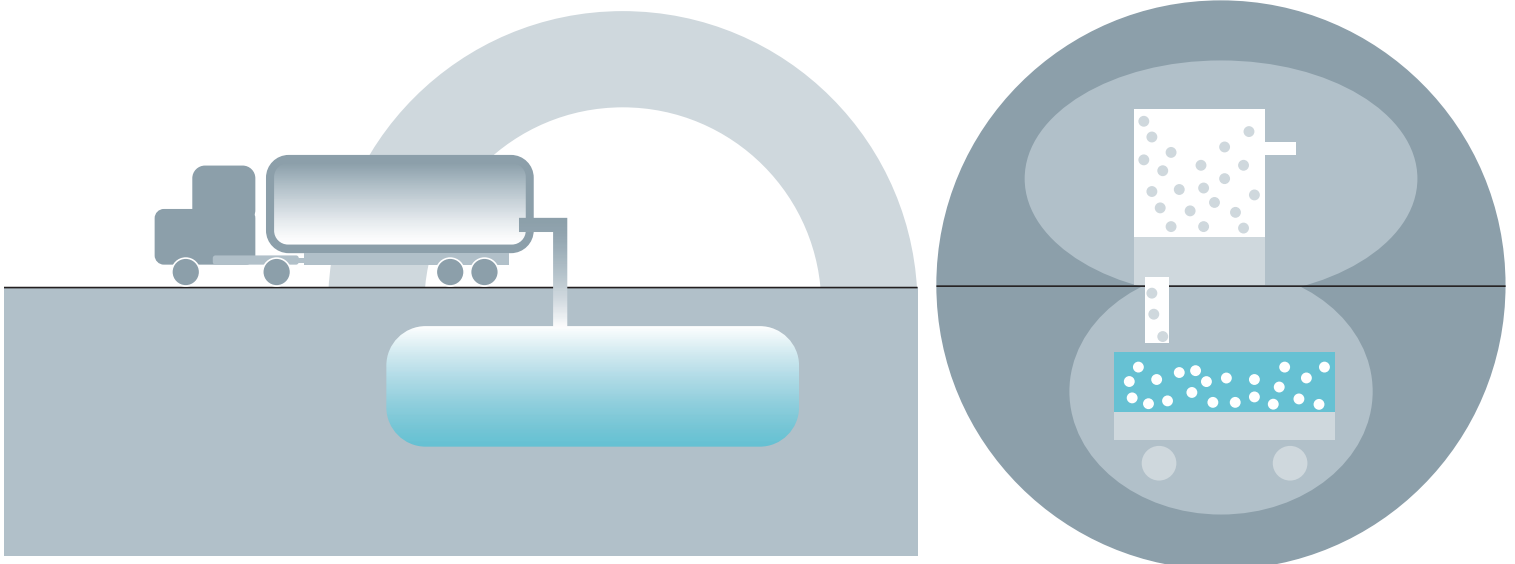
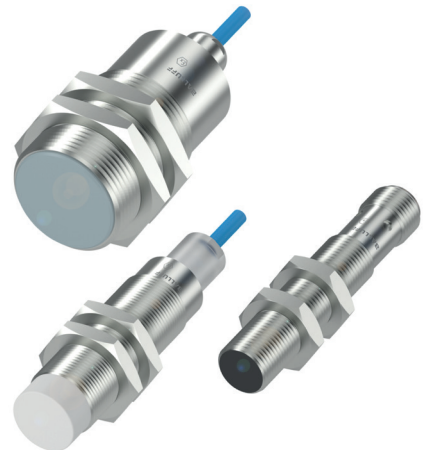
Our new inductive sensors for explosion-protected areas with cCSAus approval are suitable for use in the USA and Canada. This allows for reliable object detection and positioning in explosion-hazard areas with dust and gas atmospheres throughout North America.

The sensor families are available in M12, M18 and M30 form factors, so you can solve a variety of applications. There are also three families available for use in various temperature ranges. This ensures you of safe utilization in a variety of ambient conditions.

Their inductive switching principle provides non-contact, wear-free operation. And the uniform standard connections and cable versions mean our Ex sensors are simple to install.

Features

- For the widest range of installation conditions: uniform families in the common M12, M18 and M30 form factors
- Suitable for many temperature ranges
- Intrinsically safe sensors with matching signal converters from a single source
- Fast installation and replacement thanks to standardized connections



INDUCTIVE SENSORS
FOR HAZARDOUS AREAS



UNIVERSAL	BES05TY	BES05TZ	BES05U0	BES05U1	BES05U2	BES05U3
Dimension	M12 × 1	M12 × 1	M18 × 1	M18 × 1	M30 × 1.5	M30 × 1.5
Installation	Flush	Non-flush	Flush	Non-flush	Flush	Non-flush
Range	2 mm	4 mm	5 mm	8 mm	10 mm	15 mm
Switching output	NAMUR					
Operating voltage max.	9.6 V DC					
IP rating	IP67					
Ambient temperature min./max.	Up to -25 °C/up to +75 °C					
Housing material	Br-Ni, PA					
Connection	M12 male, 4-pin					
HazLoc classes/divisions and zones	I/I, II/I, III/I, I/O, 20					
Approval/conformity	cCSAus					



LOW TEMPERATURE	BES05UN	BES05UP	BES05UR	BES05UT	BES05UU	BES05UW
Dimension	M12 × 1	M12 × 1	M18 × 1	M18 × 1	M30 × 1.5	M30 × 1.5
Installation	Flush	Non-flush	Flush	Non-flush	Flush	Non-flush
Range	2 mm	4 mm	5 mm	8 mm	10 mm	15 mm
Switching output	NAMUR					
Operating voltage max.	9.6 V DC					
IP rating	IP68 (3 bar), IP67					
Ambient temperature min./max.	Up to -60 °C/+60 °C					
Housing material	AISI 316Ti, PTFE, PVDF					
Connection	2 m FEP cable					
HazLoc classes/divisions and zones	I/I, II/I, III/I, I/O, 20					
Approval/conformity	cCSAus					



HIGH TEMPERATURE	BES05UF	BES05UH	BES05UJ	BES05UK	BES05UL	BES05UM
Dimension	M12 × 1	M12 × 1	M18 × 1	M18 × 1	M30 × 1.5	M30 × 1.5
Installation	Flush	Non-flush	Flush	Non-flush	Flush	Non-flush
Range	2 mm	4 mm	5 mm	8 mm	10 mm	15 mm
Switching output	NAMUR					
Operating voltage max.	9.6 V DC					
IP rating	IP68 (3 bar), IP67					
Ambient temperature min./max.	Up to -25 °C/up to +140 °C					
Housing material	AISI 316Ti, PEEK					
Connection	2 m FEP cable					
HazLoc classes/divisions and zones	I/I, II/I, III/I, I/O, 20					
Approval/conformity	cCSAus					

ACCESSORIES



ISOLATING AMPLIFIER	BAE010Y	BAE010Z	BAE0110
Description	24 V DC	230 V AC	115 V AC