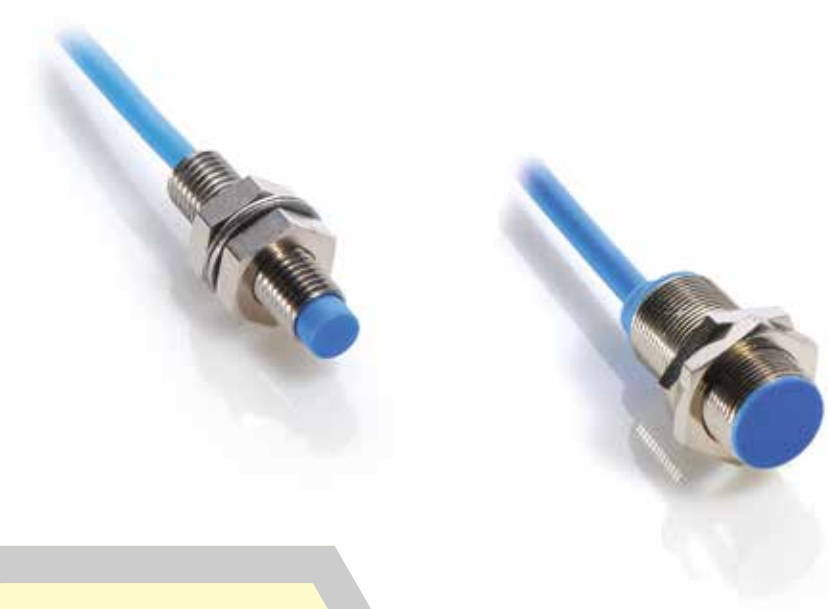


## Inductive Sensors **ATEX Sensors**



### Product features

- Metric types: M12 – M30
- Sensing distance: 2 mm – 20 mm
- Switching function: NO contact/NC contact
- Enclosure material: plastic, brass

### Good to know ...

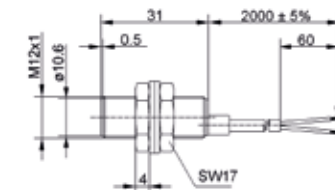
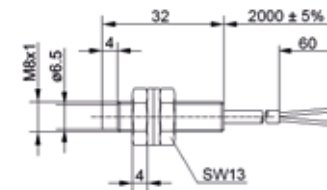
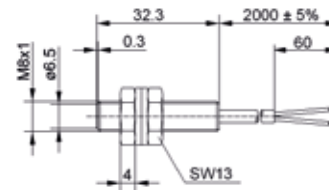
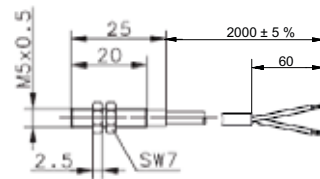
The term: “ATEX” is a derivative of **Atmosphères Explosibles**, which is French for explosive atmosphere.



# INDUCTIVE SENSORS ATEX Type M05, M08, M12



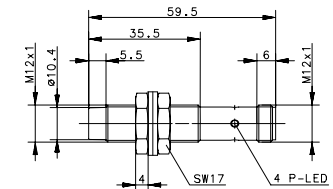
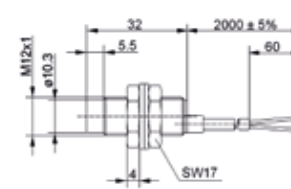
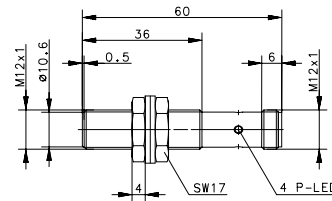
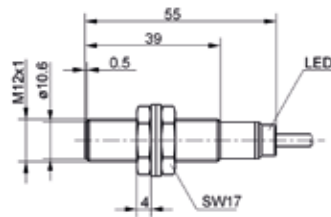
Type	M05	M08	M08	M12
Enclosure material	CuZn39Pb3	Stainless steel 1.4305	Stainless steel 1.4305	CuZn39Pb3
Type of installation	flush	flush	non-flush	flush
Nominal sensing distance	1 mm	1.5 mm	2 mm	2 mm
Type of connection	Cable 2 m	Cable 2 m	Cable 2 m	Cable 2 m
ATEX	II 2 G Ex ib IIC T6 Gb	II 2 G Ex ib IIC T6 Gb	II 2 G Ex ib IIC T6 Gb	II 2 G Ex ib IIC T6 Gb
Special feature	NAMUR	NAMUR	NAMUR	NAMUR
<b>DC</b>	<b>6581699013</b> KIB-M05EA/001-2G	<b>6581631014</b> KIB-M08EA/1,5-2G	<b>6581645015</b> KIN-M08EA/002-2G	<b>6581699016</b> KIB-M12EA/002-2G
<b>Technical data</b>				
Rated operating voltage range	$U_b$ 5–25 VDC	5–25 VDC	5–25 VDC	5–25 VDC
Rated operating current	$I_o$ –	–	–	–
Max. switching voltage	F $\approx$ 3 kHz	$\approx$ 1 kHz	$\approx$ 1 kHz	800 Hz
Short circuit-protection	–	–	–	–
Function/operating voltage indicator	–/–	–/–	–/–	–/–
<b>Mechanical data</b>				
Ambient temperature (min/max)	–20°C/+60°C	–20°C/+60°C	–20°C/+60°C	–20°C/+60°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67	IP67
Connection	2 x 0.14 mm <sup>2</sup>	2 x 0.25 mm <sup>2</sup>	2 x 0.25 mm <sup>2</sup>	2 x 0.25 mm <sup>2</sup>



# INDUCTIVE SENSORS ATEX Type M12



Type	M12	M12	M12	M12
Enclosure material	CuZn39Pb3	CuZn39Pb3	CuZn39Pb3	CuZn39Pb3
Type of installation	flush	flush	non-flush	non-flush
Nominal sensing distance	2 mm	2 mm	4 mm	4 mm
Type of connection	Cable 2 m	Connector M12	Cable 2 m	Connector M12
ATEX	II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X	II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X	II 2 G Ex ib IIC T6 Gb	II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X
Special feature	PNP/NO contact	PNP/NO contact	NAMUR	PNP/NO contact
<b>DC</b>	<b>6522903009</b> KIB-M12PS/002-KL2D	<b>6522943011</b> KIB-M12PS/002-KLS12D	<b>6581699017</b> KIN-M12EA/004-2G	<b>6522944012</b> KIN-M12PS/004-KLS12D
<b>Technical data</b>				
Rated operating voltage range	$U_b$ 10–36 VDC	10–36 VDC	5–25 VDC	10–36 VDC
Rated operating current	$I_e$ 200 mA	200 mA	–	200 mA
Max. switching voltage	F 800 Hz	800 Hz	400 Hz	400 Hz
Short circuit-protection	cyclic	cyclic	–	cyclic
Function/operating voltage indicator	LED	LED	–/–	LED
<b>Mechanical data</b>				
Ambient temperature (min/max)	–25°C/+60°C	–25°C/+60°C	–20°C/+60°C	–25°C/+60°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67	IP67
Connection	3 x 0.14 mm <sup>2</sup>	M12 x 1	2 x 0.25 mm <sup>2</sup>	12 x 1

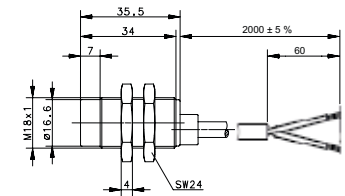
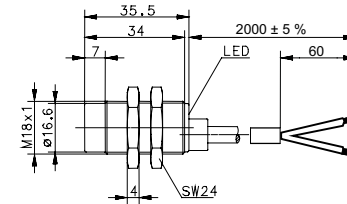
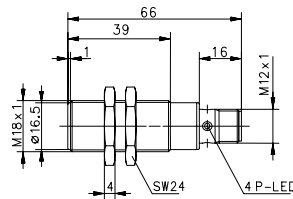
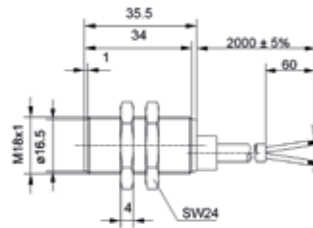


Cable couplings and other accessories can be found from p. 224

# INDUCTIVE SENSORS ATEX Type M18



Type	M18	M18	M18	M18
Enclosure material	CuZn39Pb3	CuZn39Pb3	CuZn39Pb3	CuZn39Pb3
Type of installation	flush	flush	non-flush	non-flush
Nominal sensing distance	5 mm	5 mm	8 mm	8 mm
Type of connection	Cable 2 m	Connector M12	Cable 2 m	Cable 2 m
ATEX	II 2 G Ex ib IIC T6 Gb	II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X	II 3G Ex ib IIC T6 Gc II 3D Ex ib IIIC T70°C Dc	II 2 G Ex ib IIC T6 Gb
Special feature	NAMUR		NAMUR	NAMUR
<b>DC</b>	<b>6581638018</b>	<b>6522905015</b>	<b>6521627001</b>	<b>6581699019</b>
	KIB-M18EA/005-2G	KIB-M18PS/005-KLS12D	KIN-M18EA/008-2G	KIN-M18EA/008-2G
<b>Technical data</b>				
Rated operating voltage range	$U_b$	5–25 VDC	10–36 VDC	5–25 VDC
Rated operating current	$I_e$	–	200 mA	–
Max. switching voltage	F	400 Hz	500 Hz	200 Hz
Short circuit-protection		–	cyclic	–
Function/operating voltage indicator		–/–	LED	–/–
<b>Mechanical data</b>				
Ambient temperature (min/max)		–20°C/+60°C	–25°C/+60°C	–20°C/+60°C
Protection class in accordance with IEC 529, EN 60529		IP67	IP67	IP67
Connection		2 x 0.5 mm <sup>2</sup>	M12 x 1	2 x 0.5 mm <sup>2</sup>



# INDUCTIVE SENSORS ATEX Type M18, M30



Type	M18	M30	M30	M30
Enclosure material	CuZn39Pb3	CuZn39Pb3	CuZn39Pb3	CuZn39Pb3
Type of installation	non-flush	flush	flush	flush
Nominal sensing distance	8 mm	10 mm	10 mm	10 mm
Type of connection	Connector M12	Cable 2 m	Cable 2 m	Connector M12
ATEX	II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X	II 2 G Ex ib IIC T6 Gb	II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X	II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T80°C Dc X
Special feature	PNP/NO contact	NAMUR	PNP/NO contact	PNP/NO contact
<b>DC</b>	<b>6522906016</b> KIN-M18PS/008-KLS12D	<b>6581699020</b> KIB-M30EA/010-2G	<b>6522907017</b> KIB-M30PS/010-KL2D	<b>6522907019</b> KIB-M30PS/010-KLS12D
<b>Technical data</b>				
Rated operating voltage range	$U_b$ 10–36 VDC	5–25 VDC	10–36 VDC	10–36 VDC
Rated operating current	$I_e$ 200 mA	–	200 mA	200 mA
Max. switching voltage	F 200 Hz	300 Hz	300 Hz	300 Hz
Short circuit-protection	cyclic	–	cyclic	cyclic
Function/operating voltage indicator	LED	–/–	LED	LED
<b>Mechanical data</b>				
Ambient temperature (min/max)	–25°C/+60°C	–20°C/+60°C	–25°C/+60°C	–25°C/+60°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67	IP67
Connection	M12 x 1	2 x 0.5 mm <sup>2</sup>	3 x 0.5 mm <sup>2</sup>	M12 x 1

