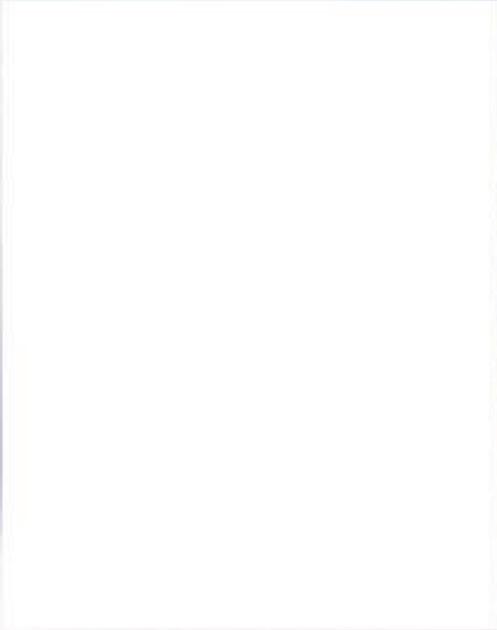


# Inductive sensors

Reliability and accuracy confirmed by millions... every day



Format		Cylindrical				
						
Model		E2EC	E2E small diameter	E2A	E2F	E2A3
Type		Subminiature	Miniature	Compact		Long distance
Material		Brass	Brass	Brass, SUS	Polyarylate	Brass
Max. sensing distance	dia 3	0.8 mm				
	dia 4		0.8 mm			
	M5		1 mm			
	dia 5.4	1.5 mm	1 mm			
	M8			4 mm	1.5 mm	3 mm
	M12	4 mm		8 mm	2 mm	6 mm
	M18			16 mm	5 mm	11 mm
	M30			30 mm	10 mm	20 mm
	19x6x6					
	22x8x6					
	26x40x12					
	31x18x10					
53x40x23						
67x40x40						
Mount.	Shielded	■	■	■	■	■
	Non-shielded			■		
Oper. mode	NO	■	■	■	■	■
	NC	■	■	■	■	■
	NO + NC			■		
Wiring	DC 2-wire	■		■		
	DC 3-wire	■	■	■	■	■
	DC 4-wire			■		
	AC 2-wire			□	■	
Voltage	10-30 VDC	■	■	■	■	■
	10-60 VDC					
	12-240 VAC			□	■	
IP rating	IP67	■	■	■	■	■
	IP69k			■		■

### Special models

Type	AC power supply	Vehicle usage certified	ATEX 3D certified	Oil resistant	Increased frequency
					
Model	E2□-Y	E2AU	E2AX	E2E	E2EL
Application	<ul style="list-style-type: none"> <li>building installations</li> </ul>	<ul style="list-style-type: none"> <li>utility vehicles</li> <li>mobile construction equipment</li> <li>RCVs (refuse collecting vehicles)</li> <li>mobile agricultural equipment</li> </ul>	<ul style="list-style-type: none"> <li>powder handling and packaging</li> <li>wood cutting/ wood chip handling</li> </ul>	<ul style="list-style-type: none"> <li>automotive manufacturing lines</li> </ul>	<ul style="list-style-type: none"> <li>counting</li> <li>rotation speed control</li> </ul>
Key features	<ul style="list-style-type: none"> <li>24-240 VAC direct switching</li> </ul>	<ul style="list-style-type: none"> <li>e1 mark</li> <li>high EMC immunity (additional test up to 100V/m)</li> </ul>	<ul style="list-style-type: none"> <li>ATEX certification Group II category 3D (94/9/EG Appendix VIII)</li> <li>typically for explosive areas zone 22 with non-leading dust</li> </ul>	<ul style="list-style-type: none"> <li>tested oil resistance on commonly used lubricants</li> </ul>	<ul style="list-style-type: none"> <li>up to 5 kHz response (switching) frequency</li> </ul>
3 mm					
5.4 mm					
6.5 mm					■
M8	■			■	■
M12	■	■	■	■	
M18	■	■	■	■	
M30	■	■	■	■	

Format		Square			
					
Model		E2S	TL-W	TL-T	E2Q2 / E2Q4
Type		Miniature	Compact	Compact	Long distance
Material		Polyarylate	ABS	PBT	PBT
Max. sensing distance	dia 3				
	dia 4				
	M5				
	dia 5.4				
	M8				
	M12				
	M18				
	M30				
	19x6x6	1.6 mm			
	22x8x6	2.5 mm	1.5 mm		
26x40x12			4 mm		
31x18x10		5 mm			
53x40x23		20 mm			
67x40x40				40 mm	
Mount.	Shielded		■	■	■
	Non-shielded	■	■	■	■
Oper. mode	NO	■	■	■	■
	NC	■	■	■	■
	NO + NC			■	■
Wiring	DC 2-wire	■	■		
	DC 3-wire	■	■	■	■
	DC 4-wire			■	■
	AC 2-wire				
Voltage	10-30 VDC	■	■	■	
	10-60 VDC				■
	12-240 VAC				
IP rating	IP67	■	■	■	■
	IP69k				

### Special models

Spatter resistant	Metal chip immune	Anti-microbial housing	Chemical resistant	High precision positioning	SMART inductive sensor
					
<b>E2EQ</b>	<b>E2EZ</b>	<b>E2F-D</b>	<b>E2FQ</b>	<b>E2C-EDA</b>	<b>ZX-E</b>
<ul style="list-style-type: none"> <li>welding applications</li> </ul>	<ul style="list-style-type: none"> <li>metal cutting in machine tool industry</li> </ul>	<ul style="list-style-type: none"> <li>meat and dairy products processing</li> <li>pharmaceutical packaging"</li> </ul>	<ul style="list-style-type: none"> <li>applications with aggressive chemicals (etching, cleaning, water treatment)</li> </ul>	<ul style="list-style-type: none"> <li>precision positioning</li> </ul>	<ul style="list-style-type: none"> <li>high precision distance measurement</li> </ul>
<ul style="list-style-type: none"> <li>PTFE coating preventing the attachment of spatters</li> </ul>	<ul style="list-style-type: none"> <li>immune to aluminium and cast iron chips on sensing surface</li> </ul>	<ul style="list-style-type: none"> <li>anti-microbial housing material inhibiting and reducing bacteria and microbe growth</li> </ul>	<ul style="list-style-type: none"> <li>PTFE housing</li> </ul>	<ul style="list-style-type: none"> <li>repeat accuracy 1 µm</li> </ul>	<ul style="list-style-type: none"> <li>1 µm measurement resolution</li> </ul>
				■	■
				■	■
■	■	■	■		
■	■	■	■	■	■
■	■		■		■

■ Standard

□ No / not available