

# Technical specifications: EC28 i / EC28 Di



<b>Measuring principle</b>	Electrochemical (EC): for toxic gases and oxygen	
<b>Measuring gas supply</b>	Diffusion	
<b>Expected average life of the sensor</b>	sensor dependent	
<b>Response time</b>	sensor dependent	
<b>Power supply</b>	Supply voltage:	15...30V DC bfor inherently safe supply $V_i \leq 30V$ 21...27V DC for supply via Zener barrier
	Maximum supply current:	25 mA
	Output signal:	for Ex zone: max. load 100 Ohm with Zener barrier not Ex zone: max. load 200 Ohm without Zener barrier
<b>Climatic conditions</b>	Short-term storage temperature:	-25...+60°C
	Recommended storage temperature:	0...+30°C
	Operational temperature (ambient):	-20...+50°C
	Humidity range:	5...90% r.h.
	Air pressure range:	80...120kPa
<b>Housing</b>	Sensoraufnehmer:	Stainless steel
	Stability:	Protect the casing against very hard impacts (> 4 J)
	Material:	anti-static plastic
	Dimensions:	115 x 203 x 55 mm (W x H x D) (H with sensor: 193 mm)
	Weight:	ca. 800 g (with display)
	Protection class:	IP64
	Cable connection:	Cable gland(s) M16x1,5 max. core cross-section 3(4) x 1,5 mm <sup>2</sup>
	Cable type and length:	LIYCY 2 x 0,75mm <sup>2</sup> up to 500 m or LIYCY 2 x 1,5 mm <sup>2</sup> up to 1000 m
<b>Approvals / Tests</b>	Markings and ignition protection types:	⊕ II 1G Ex ai IIC T4 Gb -20°C ≤ Ta ≤ +50°C CE 0158
	EU Type Examination Certificate:	BVS 04 ATEX E 132 X
	Electromagnetic compability:	DIN EN 50270      Interference emission: Type class I Interference immunity: Type class II