

Technical specifications: IR29 / IR29 D / IR29 B / IR29 DB



Measurement function

Measuring principle:	Infrared absorption
Output signal	
for IR29 and IR29 D:	4...20mA (max. load without Zener barrier: 500Ω @18V or 800Ω @≥24V)
for IR29 B and IR29 DB:	RS485 two-wire interface

Power supply

Supply voltage:	18...30V DC
Maximum supply current:	70 mA
Maximum voltage:	45V DC
Signal circuit (4-20mA):	30V DC Rated voltage
Signal circuit (RS485):	20V DC Rated voltage

Climatic conditions

Short-term storage temperature:	-25...+60°C
Recommended storage temperature:	0...+30°C
Operational temperature:	-25...+55°C
Humidity range:	0...100% r.h. (non-condensing)
Air pressure range:	75...120kPa
Oxygen content of the atmosphere:	≤ 21.0% by volume

Housing

Material:	Stainless steel, polycarbonate, PA12, POM
Dimensions:	132,5-152,5 x 75 mm (L x Ø)* Mounting surface min. 161 mm x 174 mm; height 118 mm
Weight:	approx. 1100 g
Protection class	
IR29 / IR29 D / IR29 B / IR29 DB:	IP67
IR29 D / IR29 DB with rotatable display:	IP40

Approvals / Tests

Markings and ignition protection types:	Ⓢ II 2G Ex eb mb ib [ib] IIC T4 Gb	-25°C ≤ Ta ≤ +55°C
	CE 0158	
EU Type Examination Certificate:	BVS 09 ATEX E 135 X	

* Length depending on sensor configuration; without sealing plug