



# PLB5000 Intrinsically safe isolation barrier

## Input

Supply	SELV Supply from Ex Zone 2 or non hazardous area
PLB	PLB data bus from Ex Zone 2 or non hazardous area

## Output

Supply Ex	Intrinsic safe power output ex(ib)
PLB Ex	Intrinsic safe PLB data bus ex(ib)

## Performance

Ex barrier capacity	10 PLT5397 9 PLT5497
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## Service

Status LED	Power and data traffic
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## Electrical characteristics

Supply voltage range	15...32 VDC
Power consumption	Max 10 W
Heat dissipation	Max 6 W
Reverse polarity protection	Yes
PLB short circuit protection	Yes
Supply short circuit protection	Yes
Galvanic isolation input/output	1 kV
Power output	Max 3.17 W

## Mechanical specifications

Housing	Aluminium
Dimensions	52x153x189 mm (WxDxH)
Weight	1.1 kg
Terminal wire size	0.5...2.5 mm <sup>2</sup>
DIN rail	35 mm (DIN EN 60715)

## Environment conditions

Operating temperature	-40...85 °C (-40...185 °F) (IEC 60068-2-1:2007, IEC 60068-2-2:2007)
Storage temperature	-60...85 °C (-76...185 °F) (IEC 60068-2-1:2007, IEC 60068-2-2:2007)
Humidity range	5...95 % RH, non cond. (IEC 60068-2-30:2005, IEC 60068-2-78:2012)
Ingress protection	IP20 (IEC 60529:1989)
Vibration	
sinusoidal	1...150 Hz, 3.5 mm or 4 m/s <sup>2</sup> (IEC 60068-2-6:2007)
random	9...150 Hz, 1 (m/s <sup>2</sup> )/Hz (IEC 60068-2-64:2008)
shock	6 ms, 250 m/s <sup>2</sup> (IEC 60068-2-27:2008)

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## Directives

EMC	2014/30/EU (EN 61326-1:2013, IEC 61326-3-1:2008)
ATEX	2014/34/EU (EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-18:2015, EN 60079-7:2015 + A1:2018)
RoHS 2 Directive	2011/65/EU (as amended)
WEEE	2012/19/EU

## Approvals

ATEX	DNV 25 ATEX 32395U
IECEX	IECEX DNV 25.0006U

## Ex classification

Ex marking	$\text{Ex}$ II 2(2) G Ex eb mb [ib Gb] IIC T4 Gb
Ambient temperature range	$-40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 85\text{ }^{\circ}\text{C}$ $(-40\text{ }^{\circ}\text{F} \leq T_{\text{amb}} \leq 185\text{ }^{\circ}\text{F})$

## Order information

PLZ5291	3751000-001
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## Related documents

Ex documentation	PLZ5291 Ex Safety instructions
User instructions	PLZ5291 User manual
Brochure	PLB5000 System leaflet

