

Zener Barrier ZbC2+

code: ZbC2+



The Zener barrier ZbC2+ is a certified intrinsically safe interface . It is used to connect a certified intrinsically safe device located in a potentially explosive atmosphere (Hazardous area) to a non-certified device that is in a safe area.

The Zener barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area. **The ZbC2+ Zener barrier contains two identical diode return barriers in a common housing** and it is designed for DIN rail mounting in a safe area.

Données techniques

BARRIER TYPE AND DESIGN	
Two identical Zener barriers ZB1 and ZB2 in the common housing	
Positive polarity with return diode	
ELECTRICAL SPECIFICATION	
Nominal resistance R_o	310 Ω
Fuse rating	40 mA
Series resistance	$R_{s1} = 355 \Omega$ (terminals 1-5, terminals 3-7) $R_{s2} = 42 \Omega$ (terminals 2-6, terminals 4-8)
Voltage drop across return diode	0.8 V
Working voltage (SAFE terminals)	max. 26 V at current of less than 10 μ A
GENERAL TECHNICAL DATA	
Operating temperature range	-20 to +60 $^{\circ}$ C
Dimensions	22,5 x 114 x 100 mm
Weight	125 g
Warranty	3 years
DATA FOR APPLICATION IN CONNECTION WITH HAZARDOUS AREAS	
Directive conformity	2014/34/EU
Compliance with standards	EN IEC 60079-0:2018, EN 60079-11:2012
Certificate	FTZU 22 ATEX 0018X
Identification marking	EX II (3)G [Ex ic Gc] IIC
Voltage U_o	29,4 V
Current I_o	96 mA
Resistance R_o	min. 306 Ω
Capacitance C_o + Induktance L_o	120 nF + 2 mH or 60 nF + 4 mH
Maximum safe voltage	250 V