

Zener barrier Z961/Z964 (before 2011)

2023/03/22

Features



Safety barrier for load cell to be used for intrinsic safety explosion proof weighing system.

Meets the intrinsic safety explosion proof requirement of Technology Institution of Industrial safety in Japan.

The type of Z951/Z964 to be applied is different in the model passed before 2011 and the model passed after 2012.

Specification

Specification name	Specification contents	Specification contents2
Parts No.	Z961	Z964
Rated voltage	DC/AC6.5	DC/AC10.0 V
Leakage current	10 μ A	10 μ A
Zener rated voltage	8.1 V	11.7 V
Internal rated fuse	100 mA	50 mA
Max. voltage of circuit	17.4 V	24.8 V
Max. current of circuit	178 mA	25.3 mA
Min. resistance value for limited current	98 Ω	980 Ω

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Operational temp. humidity range	-20 °C ~ 50°C, 90 %RH or less (Non condensing)	-20 °C ~ 50°C, 90 %RH or less (Non condensing)
Permissible temp. humidity range	-40 °C ~ 80°C, 95 %RH or less (Non condensing)	-40 °C ~ 80°C, 95 %RH or less (Non condensing)
Weight	Approx. 142 g	Approx. 142 g
Applied model (Before 2011)	C2B1, C2D1, C3B1, CB004, CB14, CBC1, CBE1, CC002, CC010, CCP1, CCP1A, CCR1, CCR1B, CCS1, CMM1, CMP1, PRC, STD, T3B1, TCP1, TCP1A, U2D1, U3B1, U3S1, UMM1	

Item list

Item	Rated voltage (DC/AC) [V]	Leakage current [μA]	Zener rated voltage [V]	Internal rated fuse [mA]	Max. voltage of circuit upper limit [V]	Max. current of circuit lower limit [mA]
Z961	6.5	10	8.1	100	17.4	178.0
Z964	10.0	10	11.7	50	24.8	25.3

Item	Minimum current controlling resistance value [Ω]	
Z961	98.0	
Z964	980.0	

Option(Socket) P/No.

ZH-Z.ES