

Zener barrier Z961-TC20162/Z964-TC20163 (after 2012)

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
Model No	Z961	Z964-TC20163
Terminals 1 & 2 or Terminals 1 & 3 $U_{o=}$	8.7 V	12 V
Terminals 1 & 2 or Terminals 1 & 3 $I_{o=}$	89 mA	12.3 mA
Terminals 1 & 2 or Terminals 1 & 3 $P_{o=}$	0.1931 W	0.04 W
Terminals 1 & 2 or Terminals 1 & 3 $L_{o=}$	4.48 mH	235 mH
Terminals 1 & 2 or Terminals 1 & 3 $C_{o=}$	5.9 μ F	1.41 μ F
Terminals 2 & 4 or Terminals 3 & 4 $U_{o=}$	8.7 V	12 V
Terminals 2 & 4 or Terminals 3 & 4 $I_{o=}$	89 mA	12.3 mA
Terminals 2 & 4 or Terminals 3 & 4 $P_{o=}$	0.1931 W	0.04 W
Terminals 2 & 4 or Terminals 3 & 4 $L_{o=}$	4.48 mH	235 mH

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Terminals 2 & 4 or Terminals 3 & 4 Co=	5.9 μ F	1.41 μ F
Terminals 1, 4 & 2 or Terminals 4 & 3 Uo=	8.7 V	12 V
Terminals 1, 4 & 2 or Terminals 4 & 3 Io=	178 mA	24.5 mA
Terminals 1, 4 & 2 or Terminals 4 & 3 Po=	0.39 W	0.08 W
Terminals 1, 4 & 2 or Terminals 4 & 3 Lo=	1.12 mH	59.2 mH
Terminals 1, 4 & 2 or Terminals 4 & 3 Co=	5.9 μ F	1.41 μ F
Terminals 1 & 4 Uo=	17.4 V	24 V
Terminals 1 & 4 Io=	89 mA	12.3 mA
Terminals 1 & 4 Po=	0.39 W	0.08 W
Terminals 1 & 4 Lo=	4.48 mH	235 mH
Terminals 1 & 4 Co=	0.346 μ F	0.125 μ F
Non-Hazardous Area Um=		250 VAC 50/60 Hz 250 VDC
Ambient Temperature		-20 °C to 60 °C
Weight		Approx.142 g
Applied model (After 2012)		C2B1B、C2B1B-C3、CC010-C3、CMP1J

Item list

Item	Max. voltage of circuit lower limit [V]	Max. voltage of circuit upper limit [V]	Max. current of circuit lower limit [mA]	Max. current of circuit upper limit [mA]	Maximum power lower limit [W]	Maximum power upper limit [W]
Z961-TC20162	8.7	17.4	89.0	178.0	0.1931	0.39
Z964-TC20163	12.0	24.0	12.3	24.5	0.04	0.08

Item	Allowable inductance lower limit [mH]	Allowable inductance upper limit [mH]	Allowable capacitance lower limit [μ F]	Allowable capacitance upper limit [μ F]
Z961-TC20162	1.12	4.5	0.346	5.9
Z964-TC20163	59.20	235.0	0.125	1.41

Option(Socket) P/No.

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