Hazardous (Classified) Locations
Class I, Division 2, Groups ABCD

Non-hazardous area

Transmission from Non-hazardous to hazardous (classified) area:
Supply (Terminals 1+ H, 2+, 3- and optionally 4+ H, 5+, 6-)
Um ≤ 30 VDC (loop powered) Im ≤ 100 mA

Output (Terminals 7 + 8 – and optionally 9+, 10–)
Uo or Voc = 27.3 V Io or Isc = 91.6 mA Po = 626 mW

Group A, B resp. [Ex ia] IIC Co or Ca = 88 nF Lo or La = 4.7 mH
Group C resp. [Ex ia] IIB Co or Ca = 683 nF Lo or La = 19 mH
Group D resp. [Ex ia] IIA Co or Ca = 683 nF Lo or La = 19 mH

Transmission from hazardous (classified) to Non-hazardous area:
(Terminals 1+ H, 2+, 3- and optionally 4+ H, 5+, 6-)
Um ≤ 30 VDC (loop powered) Im ≤ 100 mA

(Terminals 7 + 8 – and optionally 9+, 10–)
Vmax or Uo ≤ 30 V Ci = 0
Imax or Isc ≤ 100 mA Li = 0
Pi ≤ 750mW

Uo or Voc = 0 Io or Isc = 0

Installation Notes RB223
- CSA Approved Apparatus must be installed in accordance with manufacturer's instructions.
- Depending on location install per National Electrical Code (CEC) using wiring methods.
- Use supply wires suitable for 5°C above surroundings.
- For hazardous area Class I install the device of Protection Ratings of least NEMA 4X, Type 4X.
- For Non-hazardous area install the device of Protection Ratings of least NEMA 1, Type 1
- Warning: Substitution of components may impair suitability for Class I, Division 2.

NONINCENDIVE Field WIRING INSTALLATION
- The device is a Nonincendive equipment and must be installed in Division 2 or nonhazardous Locations only.
- The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring
  Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or
  Associated Apparatus not specifically examined in combination as a system using any of the wiring methods
  permitted for unclassified locations, when Voc ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.
- For entity installations use certified equipment that satisfy the following condition
  Uo/Voc ≤ Vmax/Uo Io/Isc ≤ Imax/Ii Po ≤ Pi Co/Ca ≥ Ci + Ccable Lo/ La ≥ Li + Lcable

Functional ratings
These ratings do not supersede Hazardous Location values
Unom ≤ 30 DC Inom ≤ 4 to 20 mA