

# CERTIFICATE OF COMPLIANCE

**Certificate Number** E199034  
**Report Reference** E199034 -1999-06-11  
**Date** 2022-May-05

**Issued to:** Pepperl+Fuchs SE  
Lilienthalstrasse 200  
Mannheim 68307 DE

**This is to certify that  
representative samples of**

TELEMETERING EQUIPMENT FOR USE IN HAZARDOUS  
LOCATIONS

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:**

UL 1203, Explosion-Proof and Dust-Ignition-Proof Electrical  
Equipment for Use in Hazardous (Classified) Locations

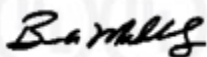
**Additional Information:**

See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

## CYLINDRICAL SWITCH SENSORS

Cylindrical Switch Sensors for use in Class I, Division 2, Groups A, B, C, and D Hazardous Locations. Models U, followed by B, C, or J, followed by a number, followed by a number, followed by G, followed by M, followed by E0, E2, E6, E7, or IU, followed by V1 or V15, followed by HA.

Cylindrical Switch Sensors for use in Class I, Division 2, Groups A, B, C, and D, Class II, Groups F and G, Class III Hazardous Locations. Models U, followed by B, C, or J, followed by a number, followed by a number, followed by G, followed by M, followed by E0, E2, E6, E7, or IU, followed by V1 or V15, followed by HB.

## LIMIT SWITCH SENSORS

Limit Switch Sensors for use in Class I, Division 2, Groups A, B, C, and D Hazardous Locations. Models U, followed by J, BE, or C, followed by a number, followed by U4, followed by 8B, E6, E7, E22, IU, IUEO, IUE2, or SA2, may be followed by RS or R2.

## SURFACE MOUNT FLAT PACK SENSORS

Surface Mount Flat Pack Sensors for use in Class I, Division 2, Groups A, B, C, and D Hazardous Locations. Models U, followed by B, C, or J, followed by a number, followed by FP or FP4, followed by E2, E6, E7, E22, IU, IUEO, or IUE2, may be followed by P4, may be followed by RS or R2.

## NOMENCLATURE:

### CYLINDRICAL SWITCH SENSORS

U B 300 - 30 G M - E2 V1 - HA  
I II III IV V VI VII VIII IX

I. Sensor Type

U - Ultrasonic

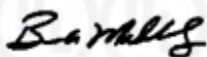
II. Series Designation

B - Basic Series

C - Classic Series with programming plug

J - Classic Series

III. Sensing Range (mm)



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IV. Housing Diameter (mm)

V. G-Threaded Housing

VI. Housing Material

M - Metal

VII. Electrical Output

E0 - Switch point (NPN)

E2 - Switch point (PNP)

E6 - Dual switch point (PNP)

E7 - Switch point (NPN)

IU - Analog current/voltage

VIII. Connector Style

V1 or V15

IX. Hazardous Location Designation

HA - Class I, Division 2, Groups A, B, C, and D Hazardous Locations (without mounting adapter)

HB - Class I, Division 2, Groups A, B, C, and D, Class II, Division 2, Groups F and G, Class III Hazardous Locations (with mounting adapter)

LIMIT SWITCH SENSORS

U J 3000 + U4 + 8B RS

I II III IV V VI

I. Sensor Type

U - Ultrasonic

II. Series Designation

J - Transceiver Series

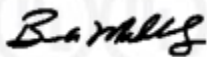
BE - Thru-Beam Series

C - Classic Series

III. Sensing Range (mm)

IV. Housing Material

U4 - Metal



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## V. Electrical Output

8B - 8 Bit Digital  
E6 - Dual switch point (PNP)  
E7 - Switch point (NPN)  
E22 - Dual switch point (PNP)  
IU - Analog current/voltage  
IUEO - Combination analog current/voltage and switch point (NPN)  
IUE2 - Combination analog current/voltage and switch point (PNP)  
SA2 - Normally Open or Normally Closed (PNP)

## VI. Computer Programmable Parameters

RS or R2 - RS232  
SURFACE MOUNT FLAT PACK SENSORS

U J 6000 - FP - IU - P4 - RS  
I II III IV V VI VII

### I. Sensor Type

U - Ultrasonic

### II. Series Designation

B - Basic Series  
C - Classic Series  
J - Classic Series

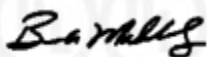
### III. Sensing Range (mm)

### IV. Housing Style

FP - Flat Pack  
FP4 - Metal housing with ½ in. NPT threaded conduit opening

### V. Electrical Output

E2 - Switch point (PNP)  
E6 - Dual switch point (PNP)  
E7 - Switch point (NPN)  
E22 - Dual switch point (PNP)  
IU - Analog current/voltage  
IUEO - Combination analog current/voltage and switch point (NPN)  
IUE2 - Combination analog current/voltage and switch point (PNP)



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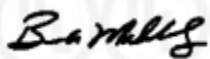
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- VI. Housing Material
  - P4 - Metal with ½ in. NPT threaded conduit opening
- VII. Computer Programmable Parameters
  - RS or R2 - RS232



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