



QPS Evaluation Services Inc
Testing, Certification and Field Evaluation Body
Accredited in Canada, the USA, and Internationally

File
LR 1323

CERTIFICATE OF COMPLIANCE
(ISO TYPE 3 CERTIFICATION SYSTEM)

Issued to Braun GmbH Industrie-Elektronik
Address Esslinger Straße 26, DE 71334 Waiblingen
Germany
Project Number LR 1323-2R1
Product Isolating Amplifier
D461R1**U*

Nomenclature:

D461 R1 . ** U *
A B C D
Model Number Where
A = D461 Type of Device
B = R1 Release 1
C = 11 Device one signal channel input, one signal channel output.
12 Device one signal channel input, two signal channel output parallel.
21 Device two signal channel input, two signal channel output
D = 1 Supply Voltage 18 to 40 Vac/Vdc

Ratings

U1: Supply Voltage: 18 to 40 Vac, 48 to 62 Hz or 18 to 40 Vdc; 3 VA
Over-Voltage Category: II

Hazardous (Classified Location) Ratings:

Power Supply:

Terminals	S3/1	1	L
	S3/2	2	N
Um (U1):	60 V		

Signal Outputs:

Terminals:	S2/1	10	Output reference
	S2/2	11	Signal Output 1
	S2/3	12	Signal Output 2
	S2/4	13	Logic Alarm Output
Um:	60 V		

Signal Outputs:

Terminals:	S3/3	6	Relay Alarm Output
	S3/4	8	Relay Alarm Output
Um:	60 V		
Relay Contacts:	30 Vdc, 2 A		

Electrical Ratings



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IS sensor outputs:

Terminals:	S1/4	22	Signal 2
	S1/3	23	Signal 1
	S1/2	24	+Sensor Feed
	S1/1	25	GND/Sensor Feed
Uo:	8.7 V		
Io:	64 mA		
Po:	384 mW		
Lo:	IIC	7.9 mH	
	IIB	38 mH	
Co:	IIC	5.9 µF	
	IIB	50 µF	
Note: Combined Lo and Co for Signal 1 and Signal 2			

Markings

	Canada	US
Standards coding:	[Ex ia Ga] IIC	[AEx ia Ga] IIC
	Intrinsically Safe Associated Apparatus suitable for installation in non-hazardous locations with connections for Class I, Groups A, B, C and D, when installed in accordance with Control Drawing Ex-20112-CD-D461R1.**. (or equivalent wording)	
Ambient:	Ta: -20 °C to +60 °C	Ta: -20 °C to +60 °C

Applicable Standards

Canadian standards	US standards
CAN/CSA C22.2 No. 60079-0:19	ANSI/UL 60079-0:19
CAN/CSA C22.2 No. 60079-11:14	ANSI/UL 60079-11:2013
CSA C22.2 No. 61010-1-12	UL 61010:2015, Ed 3

Factory/Manufacturing Location

Same as above

Statement of Compliance: The product(s)/equipment identified in this Certificate and described in the Certification Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.



Issued By: Dave Adams
 Manager, Hazardous Locations Dept. [Ex Equipment]

Signature:

Date: July 9, 2024

