

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

File
LR 1323

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	CERTIFIC (ISO TY	CATE O	F CON	IPLIANCE SYSTEM)						
Issued to	Braun GmbH Industrie-Elektronik									
Address	Esslinger Straße 26, DE 71334 Waiblingen Germany									
Project Number	LR 1323-2									
Product	Isolating Amplifier									
Model Number	D461R1**U*									
	Nomenclature:									
	D461 R1 A   A B C   Where A D461 A   B R1 I I   C 11 I I   D 12 I I   D 1 I I	Type of Device Release 1 Device one signa Device one signa Device two signa Supply Voltage	U al channel ing al channel ing al channel ing 18 to 40 Vac/	* D put, one signal channel output. put, two signal channel output parallel. put, two signal channel output Vdc						
Ratings/Markings	Ratings U1: Supply Voltage Over-Voltage Cate Hazardous (Classi	9: 18 to 40 Vac gory: II fied Location) R∉	;, 48 to 62 Hz atings:	z or 18 to 40 Vdc; 3 VA						
	Power Supply:	62/1	1							
	Terriniais	<u>S3/1</u>	2							
	Um (U1):	60 V								
	Signal Outputs: Terminals:	S2/1 S2/2 S2/3 S2/4	10 11 12 13	Output reference Signal Output 1 Signal Output 2 Logic Alarm Output						
	Um:	60 V								
	Signal Outputs:	<del></del>								
	Terminals:	<u>\$3/3</u>	6	Relay Alarm Output						
		<u>S3/4</u>	8	Relay Alarm Output						
	Um: Bolov Contocto:									
	Relay Contacts.									



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	IS sensor outp	uts:								
	Terminals:	S1/4	22		Signal 2	1				
		S1/3	23		Signal 1	1				
		S1/2	24		+Sensor Feed	1				
		S1/1	25		GND/Sensor Feed					
	Uo:	8.7 V								
	64 mA	64 mA								
	384 mW	384 mW								
Lo:		IIC	7.9 mH							
		IIB	38 mH							
	Co:	lic	5.9	9 µF						
		IIB	50 (	μF	F					
	Note: Combin	ed Lo and Co for Sign	ial 1 a	and Signal	12	I				
	Markings									
	-	Canada			US					
	Standards	[Ex ia Ga] IIC			[AEx ia Ga] IIC					
	coding:	Intrinsically Safe Ase	sociat	.ed Appara	atus suitable for installation ir	ו non-				
		hazardous locations	with (	connectior	ns for Class I, Groups A, B, C	C and D, when				
	·	installed in accordan	ice wi	th Control	Drawing Ex-20112-CD-D46	1R1.**. (or				
		equivalent wording)								
	Ambient:	Ta: -20 °C to +50 °C		·····	Ta: -20 °C to +50 °C					
Applicable Standards	Canadian star	<u>idards</u>	ļ	US stan	S standards					
	CAN/CSA C22	CAN/CSA C22.2 No. 60079-0:15			ANSI/UL 60079-0:2013					
	CAN/CSA C22	.2 No. 60079-11:14	o. 60079-11:14 ANSI/UL 60079-11:2013							
	CSA C22.2 No	. 61010-1-12	UL 61010:2015, Ed 3							
Factory/Manufacturing	Same as above									
Location										
<b>Statement of Compliance</b> : The product(s) identified in this Certificate and described in the 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.										
		$\sim$								
			IS							
		CERTIFIED								
		ELECTRICAL SAFE	ſY							
lequed By: Dave Adams.	P Eng									
Manager, Haza	ardous Location	Dent [Ex Equipmen]	+1							
Managor, raz			·J							
$\sum_{i=1}^{n}$										
Signatura: Wid	<i>,</i>		Data: hub/11/2019							
Signature.			Date. July 11, 2010							