INFRARED COMMUNICATION SOLUTIONS

Protocol Converter Gen 2 Specification

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The protocol converter provides safety barrier protection for the nozzle receiver. It provides power and converts the nozzle receiver signal to either RS232, Profinet or Profibus output

SPECIFICATION DESCRIPTION	VALUE	UNIT	REMARKS
Power input			
Voltage (typ)	24	V	
Voltage (min)	22	V	
Current (typ)	130	mA	Profinet is highest
Current (max)	200	mA	
Supply Input connector pin out	+24VDC GND Facility GND ISO GND #1 ISO GND #2		
RS485 Signal input			
Format	RS485		
Sensitivity level	+/- 200	mV	
Baud rate	38.4	kps	
Voltage (typ)	6	V	
Input connector type-RS485	Terminal block		
Input connecter pin out	1 PWR 4 GND 2 DATA + 3 DATA -		Nozzle receiver connection. PWR and GND are outputs to nozzle receiver.
Signal output-RS232			
Format	RS232		
Voltage differential level	± 5	V	
Output connector type-RS232	DB9F		
RS232 Pin Out	2 RS-232 TX 5 RS-232 Sig GND		
USB UART Interface			
Output connector type	USB 2.0 type B		
Signal output-Profinet/Profibus			
Format	Profibus, PROFINET		
Voltage differential level	4-7	V	For Profibus only
Profibus output connector type	DB9F		
Profibus Pin out	3 Profibus Data – 8 Profibus Data + 6 +5V power 5 +5V Gnd		

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PROFINET output connector type	**RJ45**		
PROFINET Pin out	**1 TD+** **2 TD-** **7 RD+** **8 RD-**		
Safety parameters			
	(Uo) 7.6 V, (Io) 200 mA, (Po) 0.380 W, (Co) 10.4 µF, (Lo) 0.89 mH, (Um) DC 24 V,		
Form factor			
Length	**21**	**Cm**	**Rectangular**
Width	**19**	**Cm**	
height	**5**	**Cm**	
Weight	**1.1**	**Kg**	
Housing material	**Aluminum**		
Certification Temperature	**-10 to 50**	**°C**	
Operation temperature	**-20 to 60**	**°C**	
Ingress protection	**IP20**		
Mounting	**DIN**		
Certification	**IECEx, ATEX, NEC, KTL, TIIS; [Ex ib Gb] IIC**		Certification marking on certificates may show [Ex ib] IIC Gb. This is a clerical error. PC Gen2 is certified for [Ex ib Gb] IIC.

ORDERING INFORMATION	
200526	**Protocol converter Gen 2 RS232-ATEX**
200527	**Protocol converter Gen 2 Profibus-ATEX**
200577	**Protocol converter Gen 2 Profinet-ATEX**
200632	**Protocol converter Gen 2 RS232 -NEC**
200633	**Protocol converter Gen 2 Profibus -NEC**
200634	**Protocol converter Gen 2 Profinet -NEC**
200658	**Protocol converter Gen 2 RS232 –KTL**
200659	**Protocol converter Gen 2 Profibus –KTL**
200660	**Protocol converter Gen 2 Profinet -KTL**
200688	**Protocol converter Gen 2 RS232 –TIIS**
200689	**Protocol converter Gen 2 Profibus –TIIS**
200690	**Protocol converter Gen 2 Profinet -TIIS**

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