

# 9400 RANGE SYSTEM SPECIFICATION

## MECHANICAL

### Mounting method

DIN-rail

### DIN-rail types

'Top hat', 35 x 7.5 mm to EN 50022 or DIN 46277

## ENVIRONMENTAL

### Ambient temp

Operating -40°C to + 70°C

(except where stated in individual module specifications)

Storage -40°C to + 70°C

### Relative Humidity

5 to 95% RH (non-condensing)

### Ingress Protection

IP20 to BS EN 60529

(Additional protection by means of enclosure)

## ELECTRICAL

### EMC compliance

To EN61326:1998 Electrical equipment for measurement, control and laboratory use – EMC requirements

### Electrical safety

EN 61010-1

## APPLICABLE STANDARDS:

- Factory Mutual Research Co., Class No. 3610 for Class I, II, III, Divisions 1 and 2, Groups A - G hazardous locations (Intrinsically safe circuits).
- Factory Mutual Research Co., Class No. 3611 for Class I, Division 2, Groups A, B, C, D hazardous locations
- EN 60079-0:2006, IEC 60079-0:2004 Electrical apparatus for explosive gas atmospheres – General requirements
- EN 60079-11:2007, IEC 60079-11:2006 Explosive atmospheres -Equipment protection by intrinsic safety "i"
- EN/IEC 60079-15:2005 Electrical apparatus for explosive gas atmospheres - Construction, test and marking of type of protection "n" electrical apparatus
- EN 60079-25:2004, IEC 60079-25:2003 Electrical apparatus for explosive gas atmospheres - Intrinsically safe systems 'i'
- EN 60079-28:2007, IEC 60079-28:2006 Electrical apparatus for explosive gas atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
- IEC 61241-0:2004 Electrical apparatus for use in the presence of combustible dust. General requirements
- IEC 61241-11:2005 Electrical apparatus for use in the presence of combustible dust. Protection by intrinsic safety "iD"
- EN 50303:2000 Group I, Category M1 equipment intended to remain functional in atmospheres endangered by firedamp and/or coal dust
- EC Directive 94/9/EC (ATEX 100A)

## PHYSICAL NETWORK

### Ethernet



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**9461-ET, 9465-ET-x-xx, 9466-ET**

Region	Europe (ATEX)	International IECEx	USA	Canada
<b>Authority</b>	SIRA	SIRA	FM	FMC
<b>Standard</b>	EN 60079-0: 2006, EN 60079-11: 2007, IEC 60079-26: 2006, IEC 60079-28: 2007, EN 50303: 2000, IEC 61241-0: 2004, IEC 61241-11: 2005	IEC 60079-0: 2004, IEC 60079-11: 2006, IEC 60079-28: 2006-08, IEC 61241-0: 2004, IEC 61241-1: 2005	3600: 1998 3610: 2007 3810: 2005	C22.2 No. 61010.1: 2004 C22.2 No. 157:1992 CAN/CSA-E60079-0: 2007 CAN/CSA-E60079-11: 2002
<b>9461-ET &amp; 9466-ET Approved for</b>	E II 1GD Ga Ex ia IIC T4 Ex iaD 20 T135°C (Ta = -40°C to +70°C)§ E I M1 Ma Ex ia I (Ta = -40°C to +70°C)	Ga Ex ia IIC T4 Ex iaD 20 T135°C Ma Ex ia I (Ta = -40°C to +70°C)§	IS/I/1/ABCD/T4 Ta=70°C I/O/AEx ia IIC T4 Ta=70°C	IS/I/1/ABCD/T4 Ta=70°C I/O/AEx ia IIC T4 Ta=70°C
<b>9465-ET-x-xx Approved for</b>	E II 1GD Ga Ex ia IIC T4 Ex iaD 20 T135°C Ga Ex ia op is IIC T4 (Ta = -40°C to +70°C)§ E I M1 Ma Ex ia I Ma Ex ia op is I (Ta = -40°C to +70°C)	Ga Ex ia IIC T4 Ga Ex ia op is IIC T4 Ex iaD 20 T135°C Ma Ex ia I Ma Ex ia op is I (Ta = -40°C to +70°C)§	IS/I/1/ABCD/T4 Ta=70°C I/O/AEx ia IIC T4 Ta=70°C	IS/I/1/ABCD/T4 Ta=70°C I/O/AEx ia IIC T4 Ta=70°C
<b>Cert. no.</b>	Sira 07ATEX2064X	IECEX SIR 07.0042X	3034995	3034995C

§ (see specification for operating temperature range)

**9468-ET**

Region	Europe (ATEX)	International IECEx	USA	Canada
<b>Authority</b>	SIRA	SIRA	FM	FMC
<b>Standard</b>	EN 60079-0: 2006, EN 60079-11: 2007, IEC 60079-26: 2006, IEC 61241-0: 2004, IEC 61241-11: 2005	IEC 60079-0: 2004, IEC 60079-11: 2006, IEC 60079-26: 2006, IEC 61241-0: 2004, IEC 61241-11: 2005	3600: 1998 3610: 2007 3810: 2005	C22.2 No. 61010.1: 2004 C22.2 No. 157: 1992 CAN/CSA-E60079-0: 2007 CAN/CSA-E60079-11: 2002
<b>Approved for</b>	E II (1) GD E I (M1) (Ga) [Ex ia] IIC [Ex iaD] (Ma) [Ex ia] I (Ta = -40°C to +70°C)§	(Ga) [Ex ia] IIC [Ex ia D] (Ma) [Ex ia] I (Ta = -40°C to +70°C)§	AIS/I/1/ABCD/T4 Ta=70°C [I]/[O]/[AEx ia] IIC T4 Ta=70°C	AIS/I/1/ABCD/T4 Ta=70°C [I]/[O]/[AEx ia] IIC T4 Ta=70°C
<b>Cert. no.</b>	Sira 07ATEX2065	IECEX SIR 07.0043	3034995	3034995C
<b>Standard</b>	EN 60079-0:2006, IEC 60079-0:2007*, EN 60079-11:2007, EN 60079-15:2005, IEC 60079-26:2006	IEC 60079-0:2004, IEC 60079-11:2006, IEC 60079-15:2005-03		
<b>Approved for</b>	E II 3 G Ex ic (ia) IIC T4 Gc (Ta = -40°C to +70°C)§ Ex nLc nAc (ia) IIC T4 (Ta = -40°C to +70°C)§	Ex ic [ia] IIC T4 Gc (Ta = -40°C to +70°C)§ Ex nLc nAc [ia] IIC (Ta = -40°C to +70°C)§		
<b>Cert. no.</b>	Sira 08ATEX4130X	IECEX SIR 08.0032X		

\* (for guidance on the Gc, nLc & nAc marking) § (see specification for operating temperature range)

**9469-ETplus**

Region	Europe (ATEX)	International IECEx	USA	Canada
Authority	SIRA	SIRA	FM	FMC
Standard	EN 60079-0: 2006, EN 60079-11: 2007, IEC 60079-26: 2006, EN 50303: 2000, IEC 61241-0: 2004, IEC 61241-11: 2005	IEC 60079-0: 2004, IEC 60079-11: 2006, IEC 61241-0: 2004, IEC 61241-1: 2005	3600: 1998 3610: 2007 3810: 2005	C22.2 No. 61010.1: 2004 C22.2 No. 157: 1992 CAN/CSA-E60079-0: 2007 CAN/CSA-E60079-11: 2002
Approved for	⊕ I M1 ⊕ II 1GD Ma Ex ia I Ga Ex ia IIC T4 Ex iaD 20 T135°C (Ta = -40°C to +60°C)§	Ma Ex ia I Ga Ex ia IIC T4 Ex iaD 20 T135°C (Ta = -40°C to +60°C)§	IS/I/1/ABCD/T4 Ta=60°C I/0/AEx ia IIC T4 Ta=60°C	IS/I/1/ABCD/T4 Ta=60°C I/0/Ex ia IIC T4 Ta=60°C
Cert. no.	Sira 07ATEX2064X	IECEx SIR 07.0042X	3034995	3034995C

§ (see specification for operating temperature range)

**9491-PS**

Region	Europe (ATEX)	International IECEx	USA	Canada
Authority	SIRA	SIRA	FM	FMC
Standard	EN 60079-0: 2006, EN 60079-11: 2007, IEC 60079-26: 2006, IEC 61241-0: 2004, IEC 61241-11: 2005	IEC 60079-0: 2004, IEC 60079-11: 2006, IEC 61241-0: 2004, IEC 61241-11: 2005	3600: 1998 3610: 2007 3810: 2005 ANSI/ISA-12.12.02: 2003 ANSI/ISA-61010.1: 2004	C22.2 No. 61010.1: 2004 C22.2 No. 157: 1992 CAN/CSA-E60079-0: 2007 CAN/CSA-E60079-11: 2002
Approved for	⊕ II (1/2) GD (Ga) [Ex ia] IIB (Gb) [Ex ib] IIB [Ex iaD] [Ex ibD] ⊕ I (M1/M2) (Ma) [Ex ia] I (Mb) [Ex ib] I Ta = 0°C to +70°C	(Ga) [Ex ia] IIB (Gb) [Ex ib] IIB [Ex iaD] [Ex ibD] (Ma) [Ex ia] I (Mb) [Ex ib] I Ta = 0°C to +70°C	AIS/I/1/CD/ Ta = 70°C I/0/[AEx ia] IIB, Ta = 70°C I/1/[AEx ib] IIB, Ta = 70°C	AIS/I/1/CD/ Ta = 70°C I/0/[Ex ia] IIB, Ta = 70°C I/1/[Ex ib] IIB, Ta = 70°C
Cert. no.	Sira 08ATEX2188	IECEx SIR 08.0072	3036457	3036457C
Standard	EN 60079-0: 2006, EN 60079-11: 2007, EN 60079-15: 2005, EN 60079-26: 2007, IEC 60079-0: 2007*,	IEC 60079-0: 2007-10, IEC 60079-11: 2006, IEC 60079-15: 2005-03, IEC 60079-26: 2006	3611: 2004	C22.2 No. 213:1987 CAN/CSA-E60079-15: 2002
Approved for	⊕ II 3G (1)G (2)G Ex nAc [ia] [ib] IIB T4 (Ta = 0°C to +70°C)	Ex nAc [ia] [ib] IIB T4 (Ta = 0°C to +70°C)	NI/I/2/CD/T4, Ta = 70°C I/2/AEx nA II T4, Ta = 70°C	NI/I/2/CD/T4, Ta = 70°C I/2/Ex nA II T4, Ta = 70°C
Cert. no.	Sira 08ATEX4310X	IECEx SIR 08.0117X	3036457	3036457C

\* (for guidance on marking)

**ORDERING INFORMATION**

Part No.	Description
<b>9461-ET</b>	IS serial to Ethernet gateway
<b>9465-ET-M-ST</b>	IS media converter
<b>9465-ET-M-SC</b>	IS media converter
<b>9465-ET-S-SC</b>	IS media converter
<b>9466-ET</b>	IS managed Ethernet switch
<b>9468-ET</b>	IS Ethernet isolator
<b>9469-ETplus</b>	IS wireless AP/bridge

Part No.	Description
<b>ANTSMA94</b>	Omni-directional antenna - 2.4GHz, 3dBi gain
<b>9491-PS</b>	IS power supply
<b>CSL9405-xxx</b>	Copper twisted pair FTP Patch Cable (pre-terminated with RJ45 - RJ45 connectors)
	-xxx suffix denotes the cable length.
	Lengths available from 0.5m – 100m



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