
9400 SERIES

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 -20°C to + 70°C
(except where stated in individual module specifications)
Storage -20°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'
- 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



APPROVALS

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

| Region | Europe (ATEX) | International IECEx | USA | Canada |
|--------------|---|--|---------|---------|
| Authority | SIRA | SIRA | FM | CSA |
| 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 | | |
| Approved for | ⊕ II 1GD Ga Ex ia IIC T4 Ex iaD 20 T135°C (Ta = -40°C to +70°C) ⊕ 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) | | |
| Cert. no. | Sira 07ATEX2064X | IECEx SIR 07.0042X | Pending | Pending |

9469-ET

| Region | Europe (ATEX) | International IECEx | USA | Canada |
|--------------|---|--|---------|---------|
| Authority | SIRA | SIRA | FM | CSA |
| 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 | | |
| Approved for | ⊕ II 1GD Ga Ex ia IIC T4 Ex iaD 20 T135°C (Ta = -40°C to +60°C) ⊕ I M1 Ma Ex ia I (Ta = -40°C to +60°C) | Ga Ex ia IIC T4 Ex iaD 20 T135°C Ma Ex ia I (Ta = -40°C to +60°C) | | |
| Cert. no. | Sira 07ATEX2064X | IECEx SIR 07.0042X | Pending | Pending |

9468-ET

| Region | Europe (ATEX) | International IECEx | USA | Canada |
|--------------|---|--|---------|---------|
| Authority | SIRA | SIRA | FM | CSA |
| 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 60079-26:2006, IEC 61241-0:2004, IEC 61241-1:2005 | | |
| Approved for | ⊕ II 3 G Gc Ex nL T4 Gc Ex ic T4 ⊕ II (1) GD (Ga) [Ex ia] IIC [Ex ia] D ⊕ I (M1) (Ma) [Ex ia] I (Ta = -40°C to +70°C) | Gc Ex nL T4 Gc Ex ic T4 (Ga) [Ex ia] IIC [Ex ia] D (Ma) [Ex ia] I (Ta = -40°C to +70°C) | | |
| Cert. no. | Pending | Pending | Pending | Pending |

(continued on next page)



9491-PS

| Region | Europe (ATEX) | International IECEx | USA | Canada |
|-----------------------------|--|---|---------|---------|
| Authority | SIRA | SIRA | FM | CSA |
| 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 | | |
| "Ex ia" output approved for | ⊕ II 3 G Gc Ex nA T4 ⊕ II (1) GD (Ga) [Ex ia] IIC [Ex ia] D ⊕ I (M1) (Ma) [Ex ia] I (Ta = -40°C to +70°C) | Gc Ex nA T4 (Ga) [Ex ia] IIC [Ex ia] D (Ma) [Ex ia] I (Ta = -40°C to +70°C) | | |
| "Ex ib" output approved for | ⊕ II 3 G Gc Ex nA T4 ⊕ II (1) GD (Ga) [Ex ib] IIB [Ex ib] D ⊕ I (M1) (Ma) [Ex ib] I (Ta = -40°C to +70°C) | Gc Ex nA T4 (Ga) [Ex ib] IIB [Ex ib] D (Ma) [Ex ib] I (Ta = -40°C to +70°C) | | |
| Cert. no. | Pending | Pending | Pending | Pending |

ORDERING INFORMATION

| Part No. | Description |
|---------------------|--|
| 9461-ET | IS serial to Ethernet gateway |
| 9465-ET-M-ST | IS media converter |
| 9465-ET-M-SC | IS media converter |
| 9465-ET-S-SC | IS media converter |
| 9466-ET | IS managed Ethernet switch |
| 9468-ET | IS Ethernet isolator |
| 9469-ET | IS wireless AP/bridge |
| ANT94 | Omni-directional antenna - 2.4GHz, 3dBi gain |
| 9491-PS | IS power supply |
| CSL9405-xxx | Copper twisted pair FTP Patch Cable (pre-terminated with RJ45 - RJ45 connectors) -xxx suffix denotes the cable length. Lengths available from 0.5m – 100m |

