HIRSCHMANN

A **BELDEN** BRAND

RSP Managed Industrial Ethernet Switch with Fanless Design

Fast and Gigabit Ethernet Networks

The new RSP family of switches with robust hardware and a powerful operating system, are able to withstand extremely harsh environmental conditions. For the first time, the integration of new redundancy protocols allows uninterrupted data communication. These new techniques, PRP (Parallel Redundancy Protocol) and HSR (High-availability Seamless Redundancy), are based on the international IEC 62439 standard and therefore guarantee future security and interoperability. Precision time synchronization in accordance with IEEE 1588v2, synchronizes sensors, drives, and measuring equipment. Gigabit Ethernet provides for a fast connection to the backbone, while connections to terminal equipment use 100Base-TX – either alone or in combination with 100Base-FX.
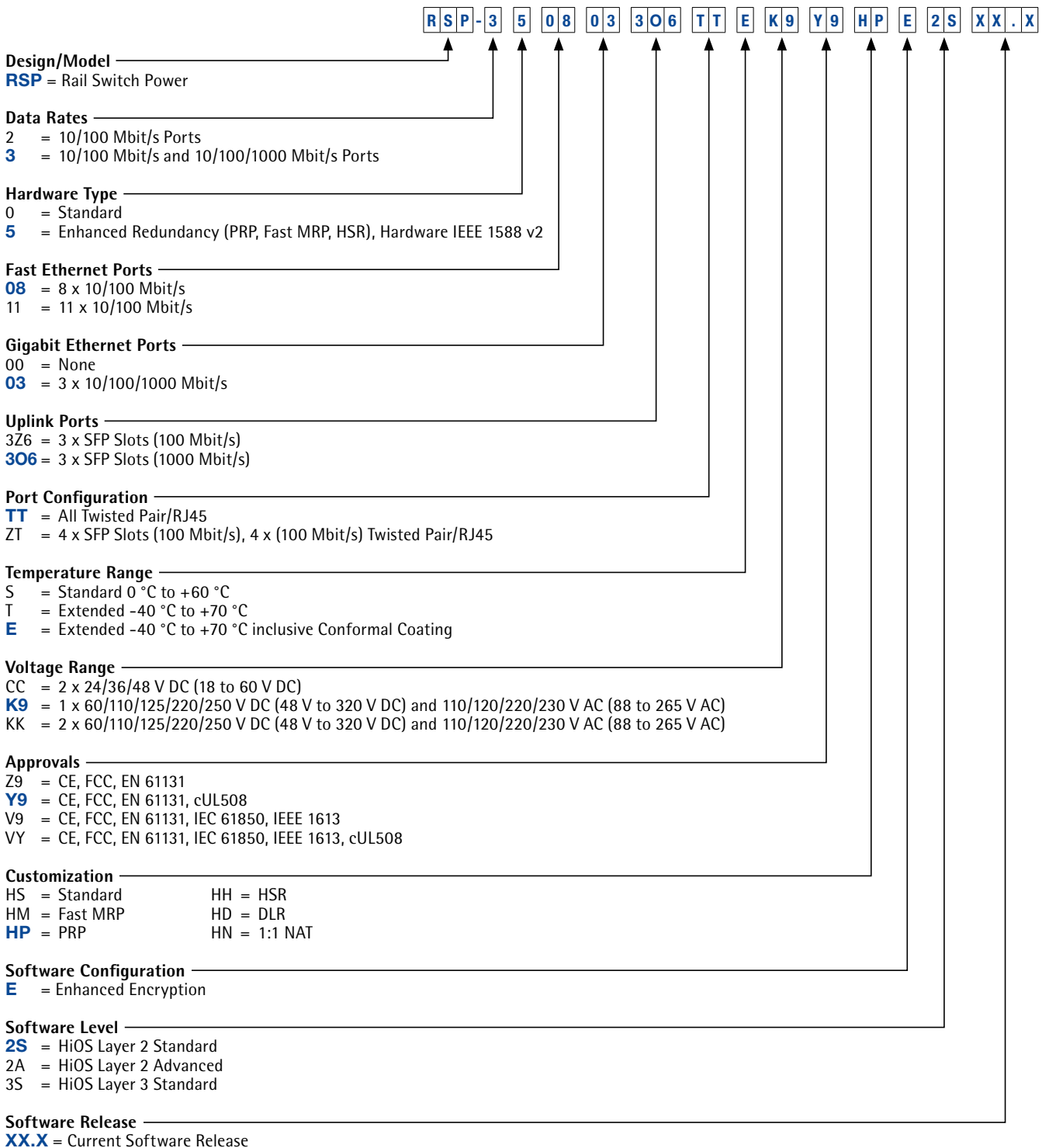
Technical Information

Product Description		
Type	RSP Series Standard Temperature	RSP Series Extended Temperature
Available Ports	11	
Enhanced Redundancy Functions	Fast MRP, HSR, PRP, DLR (variant dependent)	
Construction		
Mounting	DIN Rail	
Protection Class	IP30	
Dimensions (W x H x D)	90 x 164 x 120 mm	98 x 164 x 120 mm
Weight	1.2 kg	1.5 kg
Ambient Conditions		
Operating Temperature	0 °C to +60 °C, -40 °C to +70 °C, or -40 °C to +70 °C (inclusive Conformal Coating), IEC 60068-2-2 Dry Heat Test +85°C 16 Hours	
Storage/Transport Temperature	-40 °C to +85 °C	
Relative Humidity (non-condensing)	10% to 95%	
Conformal Coating	Yes (variant dependent)	
Interfaces		
V.24 Interface	1 x RJ11 socket	
USB Interface	1 x to connect auto-configuration adapter ACA31 (SD-card)	
Software		
Supported HiOS Software Levels	Layer 2 Standard (L2S), Layer 2 Advanced (L2A), Layer 3 Standard (L3S)	
Power Requirements		
Operating Voltage	24 - 48 V DC redundant, or 60 - 250 V DC and 110 - 230 V AC	
PoE (802.3af) Ports Supported	n/a	
PoE Plus (802.3at) Ports Supported	n/a	
Regulatory Approvals		
Safety of Industrial Control Equipment	cUL508	
Hazardous Locations	IECEx, ISA12.12.01 Class 1 Div. 2 Group A, B, C, D, ATEX 100a Zone 2	
Ship	Germanischer Lloyd GL (pending)	
Transportation	NEMA TS2	
Railway (norm)	EN 50121-4	
Substation	IEC 61850-3, IEEE 1613	
Reliability		
MTBF Range	www.hirschmann.com	
Warranty	5 years standard	

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.hirschmann.com

RSP Series Managed Industrial DIN Rail Switch Configurations

Fast and Gigabit Ethernet Networks

`RSP`-`3` `5` `08` `03` `3O6` `TT` `E` `K9` `Y9` `HP` `E` `2S` `XX`.`X`

Design/Model
RSP = Rail Switch Power

Data Rates
2 = 10/100 Mbit/s Ports
3 = 10/100 Mbit/s and 10/100/1000 Mbit/s Ports

Hardware Type
0 = Standard
5 = Enhanced Redundancy (PRP, Fast MRP, HSR), Hardware IEEE 1588 v2

Fast Ethernet Ports
08 = 8 x 10/100 Mbit/s
11 = 11 x 10/100 Mbit/s

Gigabit Ethernet Ports
00 = None
03 = 3 x 10/100/1000 Mbit/s

Uplink Ports
3Z6 = 3 x SFP Slots (100 Mbit/s)
3O6 = 3 x SFP Slots (1000 Mbit/s)

Port Configuration
TT = All Twisted Pair/RJ45
ZT = 4 x SFP Slots (100 Mbit/s), 4 x (100 Mbit/s) Twisted Pair/RJ45

Temperature Range
S = Standard 0 °C to +60 °C
T = Extended –40 °C to +70 °C
E = Extended –40 °C to +70 °C inclusive Conformal Coating

Voltage Range
CC = 2 x 24/36/48 V DC (18 to 60 V DC)
K9 = 1 x 60/110/125/220/250 V DC (48 V to 320 V DC) and 110/120/220/230 V AC (88 to 265 V AC)
KK = 2 x 60/110/125/220/250 V DC (48 V to 320 V DC) and 110/120/220/230 V AC (88 to 265 V AC)

Approvals
Z9 = CE, FCC, EN 61131
Y9 = CE, FCC, EN 61131, cUL508
V9 = CE, FCC, EN 61131, IEC 61850, IEEE 1613
VY = CE, FCC, EN 61131, IEC 61850, IEEE 1613, cUL508

Customization
HS = Standard   HH = HSR
HM = Fast MRP   HD = DLR
HP = PRP   HN = 1:1 NAT

Software Configuration
E = Enhanced Encryption

Software Level
2S = HiOS Layer 2 Standard
2A = HiOS Layer 2 Advanced
3S = HiOS Layer 3 Standard

Software Release
XX.X = Current Software Release

NOTE: The part number categories (**Configuration** and **Software Release**) are optional.