



SCHILDKNECHT
SMART DATA COMMUNICATION

DATAEAGLE 3000 SERIES



DATAEAGLE®
INDUSTRIAL RADIO SYSTEMS



PROFI®
BUS

PROFI®
NET

THE SPECIALIST

Classic



Suitable for central control cabinet installation.
The integrated display and control panel provide Configurations and diagnosis options.



THE STANDARD

Compact



Suitable for central control cabinet installations.
Little space required – due to the compact design.



THE ROBUST

X-treme



Suitable for installations inside and outside.
High protection classes allows operations under extreme conditions.





THE DATAEAGLE 3000 SERIES

General information

- o The **DATAEAGLE 3000-A** series was developed especially for the transparent transmission of PROFIBUS DP by utilization of various radio technologies. Supported bus speed is up to 1,5 Mbit/s.
- o The use of our **patented filter technology** guarantees a highly reliable and error-free radio link.
- o All devices which have a PROFIBUS DP interface, can be tied in by radio link.
- o No device configuration necessary – **Plug&Play**.
- o With the **DATAEAGLE 3002-A** Series the security oriented devices are supported by PROFIsafe for PROFIBUS DP.
- o **The range** depends on the radio technology used as well as on the surrounding conditions. The typical parameters include a range of **100m - 300m (3700-A Series) or 1km - 3km (3300-A Series)**.
- o Thousands of applications are already successfully in use. You can find the references on our website www.schildknecht.ag



HIGHLY VERSATILE

Application examples

- o Replacement of conductor lines
- o Replacement of trailing cable / cable chains
- o Replacement of optical coupler
- o Cranes / crane systems
- o Storage systems
- o Transport vehicles
- o Water, sewage and raw materials management
- o Machine construction
- o Lifts / Elevators
- o Automotive industry





DATAEAGLE CLASSIC 3702-A

Technical data



GENERAL

Operating voltage	24 V DC
Power supply connection	Screw terminal block
Current consumption	100 mA
Mounting method	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	650 g
Width	233 mm
Height	106 mm
Depth	39 mm
Color	Black

RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	3
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	9 pol. SUB-D
Max. DP slaves	8
PROFIsafe	On request

REFERENCE

Master	10887
Slave	10888



DATAEAGLE CLASSIC 3715-A

Technical data



o GENERAL

Operating voltage	24 V DC
Power supply connection	Screw terminal block
Current consumption	100 mA
Mounting method	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	650 g
Width	233 mm
Height	106 mm
Depth	39 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	1
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

o INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	9 pol. SUB-D
Max. DP slaves	4
PROFIsafe	-

o REFERENCE

Master	11150
Slave	11151



DATAEAGLE CLASSIC 3703-A

Technical data



o GENERAL

Operating voltage	24 V DC
Power supply connection	Screw terminal block
Current consumption	100 mA
Mounting method	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	650 g
Width	233 mm
Height	106 mm
Depth	39 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	1
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

o INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	9 pol. SUB-D
Max. DP slaves	4
PROFIsafe	-

o REFERENCE

Master	10918
Slave	10919



DATAEAGLE COMPACT 3702

Technical data



o GENERAL

Operating voltage	24 V DC
Power supply connection	Screw terminal block
Current consumption	100 mA
Mounting method	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	130 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	3
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

o INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	9 pol. SUB-D
Max. DP slaves	8
PROFIsafe	On request

o REFERENCE

Master	11000
Slave	11001



DATAEAGLE COMPACT 3703-A

Technical data



o GENERAL

Operating voltage	24 V DC
Power supply connection	Screw terminal block
Current consumption	100 mA
Mounting method	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	130 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	3
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

o INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	9 pol. SUB-D
Max. DP slaves	4
PROFIsafe	-

o REFERENCE

Master	10991
Slave	10992



DATAEAGLE COMPACT 3715-A

Technical data



o GENERAL

Operating voltage	24 V DC
Power supply connection	Screw terminal block
Current consumption	100 mA
Mounting method	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	130 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	1
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

o INTERFACE

Max. PROFIBUS DP speed	1,5 MBit/s
PROFIBUS DP connection	9 pol. SUB-D
Max. DP slaves	4
PROFIsafe	-

o REFERENCE

Master	11160
Slave	11161



DATAEAGLE COMPACT 3705-A

Technical data



GENERAL

Operating voltage	24 V DC
Power supply connection	Screw terminal block
Current consumption	100 mA
Mounting method	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	130 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	1
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

INTERFACE

Max. PROFIBUS DP speed	187,5 kBit/s
PROFIBUS DP connection	9 pol. SUB-D
Max. DP slaves	4
PROFIsafe	-

REFERENCE

Master	10993
Slave	10994



DATAEAGLE X-TREME 3702-A

Technical data



o GENERAL

Operating voltage	24 V DC
Power supply connection	M12, A-coded
Current consumption	100 mA
Mounting method	4 hole screw mounting
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, (FCC in preparation)
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	3
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

o INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	M12, B-coded
Max. DP slaves	8
PROFIsafe	On request

o REFERENCE

Master	11300
Slave	11301



DATAEAGLE X-TREME 3703-A



Technical data

o GENERAL

Operating voltage	24 V DC
Power supply connection	M12, A-coded
Current consumption	100 mA
Mounting method	4 hole screw mounting
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, (FCC in preparation)
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	3
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

o INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	M12, B-coded
Max. DP slaves	4
PROFIsafe	-

o REFERENCE

Master	11302
Slave	11303



DATAEAGLE X-TREME 3715-A

Technical data



○ GENERAL

Operating voltage	24 V DC
Power supply connection	M12, A-coded
Current consumption	100 mA
Mounting method	4 hole screw mounting
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, (FCC in preparation)
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	1
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

○ INTERFACE

Max. PROFIBUS DP speed	1,5 MBit/s
PROFIBUS DP connection	M12, B-coded
Max. DP slaves	4
PROFIsafe	-

○ REFERENCE

Master	11320
Slave	11321



DATAEAGLE X-TREME 3705-A

Technical data



o GENERAL

Operating voltage	24 V DC
Power supply connection	M12, A-coded
Current consumption	100 mA
Mounting method	4 hole screw mounting
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, (FCC in preparation)
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth
Output power	100 mW (EIRP)
Max. radio slaves	1
Typical range indoor	100 m
Typical range outdoor	300 m
Antenna Connector	SMA connector - 50 Ohm

o INTERFACE

Max. PROFIBUS DP speed	1,5 MBit/s
PROFIBUS DP connection	M12, B-coded
Max. DP slaves	4
PROFIsafe	-

o REFERENCE

Master	11304
Slave	11305



DATAEAGLE CLASSIC 3323-A

Technical data



○ GENERAL

Operating voltage	24 V DC
Power supply connection	Screw terminal block
Current consumption	200 mA
Mounting method	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE
Weight	800 g
Width	233 mm
Height	106 mm
Depth	39 mm
Color	Black

○ RADIO TECHNOLOGY

Frequency	869 MHz
Output power	500 mW (EIRP)
Max. radio slaves	3
Typical range indoor	300 m
Typical range outdoor	1 -3 km
Antenna Connector	SMA connector - 50 Ohm

○ INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	9 pol. SUB-D
Max. DP slaves	4
PROFIsafe	-

○ REFERENCE

Master	10949
Slave	10950



DATAEAGLE COMPACT 3323-A

Technical data



GENERAL

Operating voltage	24 V DC
Power supply connection	Screw terminal block
Current consumption	200 mA
Mounting method	DIN rail mounting
Protection class	IP20
Temperature range	-20...+60 °C
Conformity	CE
Weight	160 g
Width	22,5 mm
Height	99 mm
Depth	114,5 mm
Color	Black

RADIO TECHNOLOGY

Frequency	869 MHz
Output power	500 mW (EIRP)
Max. radio slaves	3
Typical range indoor	300 m
Typical range outdoor	1 -3 km
Antenna Connector	SMA connector - 50 Ohm

INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	9 pol. SUB-D
Max. DP slaves	4
PROFIsafe	-

REFERENCE

Master	10998
Slave	10999



DATAEAGLE X-TREME 3323-A

Technical data



o GENERAL

Operating voltage	24 V DC
Power supply connection	M12, A-coded
Current consumption	200 mA
Mounting method	4 hole screw mounting
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE
Weight	300 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

o RADIO TECHNOLOGY

Frequency	869 MHz
Output power	500 mW (EIRP)
Max. radio slaves	3
Typical range indoor	300 m
Typical range outdoor	1 -3 km
Antenna Connector	SMA connector - 50 Ohm

o INTERFACE

Max. PROFIBUS DP speed	1.5 MBit/s
PROFIBUS DP connection	M12, B-coded
Max. DP slaves	4
PROFIsafe	-

o REFERENCE

Master	11308
Slave	11309



