

open   
**SAFETY**

  
**SCHILDKNECHT**  
SMART DATA COMMUNICATION

 **Bluetooth™ 5**



  
**DATAEAGLE® 4000**  
Wireless openSAFETY/UDP



# Wireless openSAFETY/UDP - DATAEAGLE 4000

## Your benefits

[DATAEAGLE 4000 - Wireless openSAFETY](#) was especially designed for a transparent data transmission of Ethernet and openSAFETY/UDP via Bluetooth. All devices featuring an Ethernet interface may be connected via radio. The patented technology guarantees a highly stable and reliable radio connection without interruptions and prevents system downtimes. The use of modern Bluetooth 5 radio technology enables the highest demands to be met in terms of speed and latency. This makes the DATAEAGLE 473x particularly suitable for high-performance and safety applications. [Read our white paper „Wireless 101“ to learn more about our patented wireless technology.](#)

- openSAFETY over UDP
- Patented radio transmission system
- Plug and Play – No device configuration required
- 2 times faster data transmission with minimal latency
- State-of-the-art security with 128-bit AES encryption
- Increased range up to 1 km through integrated optimisation functions



## Application examples

### Versatile

We have been successfully equipping industrial plants with our radio data transmission system for over 35 years. On our website you will find numerous [practical examples](#) and an overview of our [industry sectors with reports about wireless solutions.](#)

- Substitute of conductor lines
- Substitute of trailing cables and cable chains
- Substitute of optical data transceivers
- Crane systems
- Warehouse systems
- Automotive industry
- Transport vehicles
- Water, wastewater, waste and raw material management
- Engineering
- Lifts, inclined lifts and cable cars
- Oil and gas industry
- Steelworks
- Stage technology



# Wireless openSAFETY/UDP - DATAEAGLE 4000

## Differences at a glance

Product	Frequency	Integrated Switch	Radio Slaves	Protection class
<a href="#">Compact 473x</a>	2,4 GHz Bluetooth 5	Yes	1	IP20
<a href="#">X-treme 473x</a>	2,4 GHz Bluetooth 5	No	1	IP65





# DATAEAGLE Compact 473x

## Technical data



### ○ GENERAL

Voltage supply	24 V DC
Connection voltage supply	Terminal clamps
Power consumption	150 mA
Fixing	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 5
Transmitting power	8 dBm
Max. Number radio Slaves	1
Max. Number Devices	16x openSAFETY Nodes (safeNODES)
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

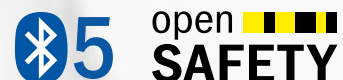
### ○ INTERFACE

Max. ETHERNET Transmission rate	100 Mbit
2-fach Switch	Yes
ETHERNET connection	RJ 45
Software Interface	openSAFETY

### ○ ORDER NUMBER

DATAEAGLE Compact 473x (Basic device)	15475
Interface openSAFETY	15484

- [Here you find all informations about antennas and accessories](#)
- [Go back to product overview](#)





# DATAEAGLE X-treme 473x

## Technical data



### GENERAL

Voltage supply	24 V DC
Connection voltage supply	M12
Power consumption	150 mA
Fixing	4-hole screw fastening
Protection class	IP65
Temperature range	-20...+60 °C
Conformity	CE, FCC
Weight	280 g
Width	88 mm
Height	120 mm
Depth	42 mm
Color	Black

### RADIO TECHNOLOGY

Frequency	2,4 GHz Bluetooth 5
Transmitting power	8 dBm
Max. Number radio Slaves	1
Max. Number Devices	16x openSAFETY Nodes (safeNODES)
Range Indoor	100 m
Range Outdoor	300 m
Antenna connection	SMA Connection - 50 Ohm

### INTERFACE

Max. ETHERNET Transmission rate	100 Mbit
2-fach Switch	No
ETHERNET connection	M12, D-coded
Software Interface	openSAFETY

### ORDER NUMBER

DATAEAGLE X-treme 473x (Basic device)	15476
Interface openSAFETY	15484

- [Here you find all informations about antennas and accessories](#)
- [Go back to product overview](#)