



THE CONTRINEX NETWORK

CONTRINET



LOW FREQUENCY



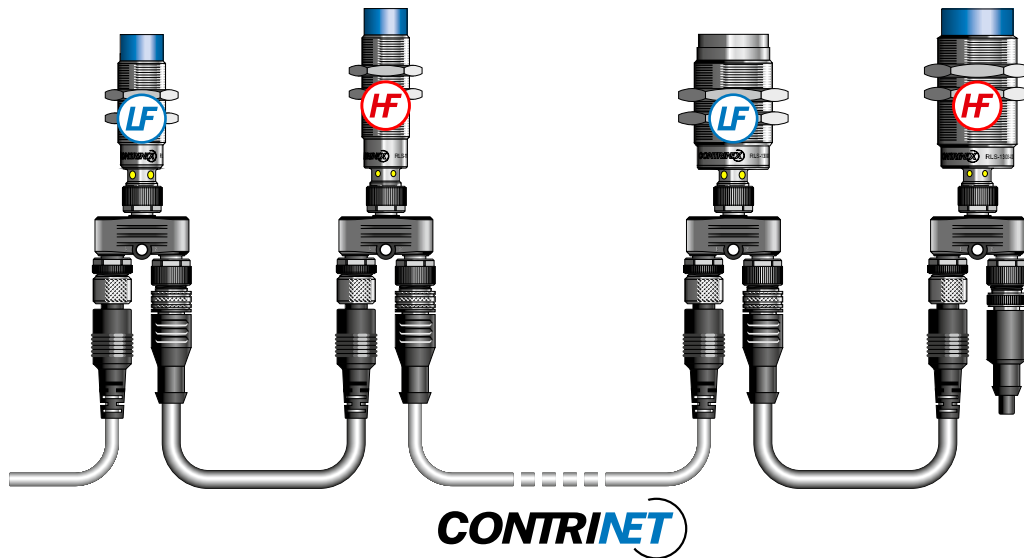
HIGH FREQUENCY

KEY ADVANTAGES

- ✓ Powerful RS485 network for LF and HF systems
- ✓ Threaded Read/Write Modules (RWMs) with S12 connector and RS485 output
- ✓ LF and HF RWMs can be mixed on the same network
- ✓ Rugged all-metal RWMs with impervious sensing face
- ✓ High-temperature RWMs for up to +125°C (257°F)
- ✓ Interfaces for most industrial fieldbuses and USB

CONTRINET

CONTRINET: THE CONTRINEX NETWORK



ContriNet is the RFID network of Contrinex. It is an RS485 physical network with a specific Contrinex protocol. Full documentation is provided.

ContriNet allows LF and/or HF Read/Write Modules to be connected in series:

- Up to 10 with one USB interface
- Up to 31 with one industrial bus interface
- Up to 254 on a half-duplex RS485 interface

While the usual interfaces allow connection of a limited number of Read/Write Modules, the ContriNet network can be used to reduce the number of interfaces, which makes the ConID system more economic.

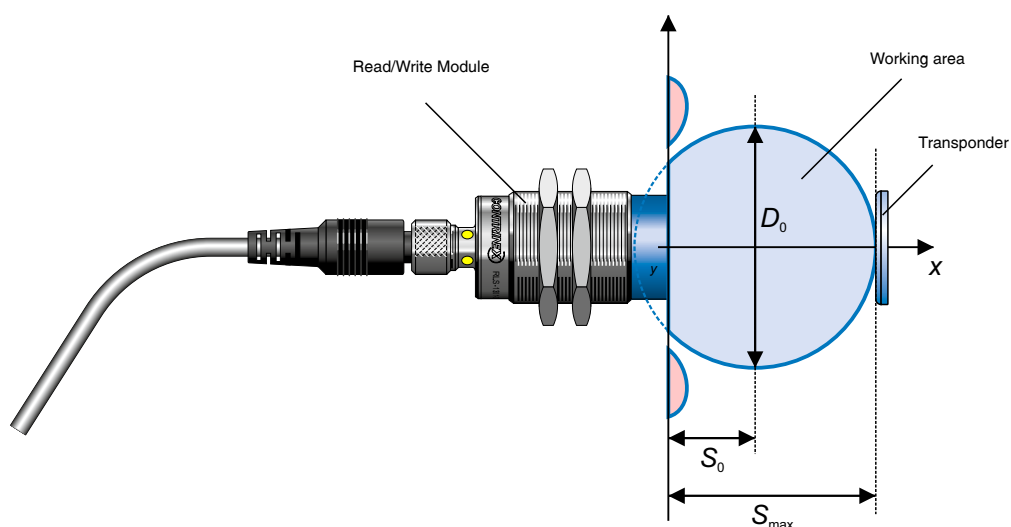
In principle, a ContriNet network can extend to a length of 200 m.

LOW FREQUENCY

	RLS-1180-030		RLS-1300-030		RLS-1181-030		RLS-1301-030	
	S_{max}	D_o	S_{max}	D_o	S_{max}	D_o	S_{max}	D_o
RTP-0201-000	7.7	14.0	4.5	22.2	25.4	28.8	28.0	32.3
RTP-0301-000	11.9	23.2	12.2	26.2	25.9	32.6	28.7	36.5
RTP-0501-000	7.4	59.1	7.8	47.8	36.3	49.3	40.7	52.2
RTM-0100-000	8.4	13.0	8.6	19.0	16.5	12.6	13.4	20.7
RTM-0160-000	10.7	15.9	12.1	21.6	17.1	21.1	18.7	25.7
RTM-0260-000	12.5	22.2	12.9	23.8	22.6	28.6	26.1	21.9
RTM-2160-000	6.3	8.6			12.5	16.0	12.5	20.4
RTM-2300-000	8.6	15.4	4.4	26.5	15.6	19.9	18.0	22.6
RTF-1300-000	11.9	20.4	12.4	22.8	20.7	26.6	22.8	29.8

HIGH FREQUENCY

	RLS-1183-020		RLS-1303-020		
	S_{max}	D_o	S_{max}	D_o	
RTP-0201-020	14	19	26	31	
RTP-0301-020	29	34	36	41	
RTP-0501-020	24	46	47	54	
RTP-0090-020	9	13	16	22	
RTP-0263-020	22	26	34	37	
RTP-0502-020	42	50	60	65	

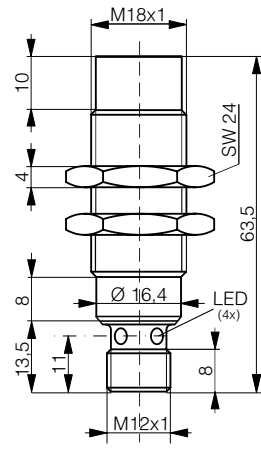
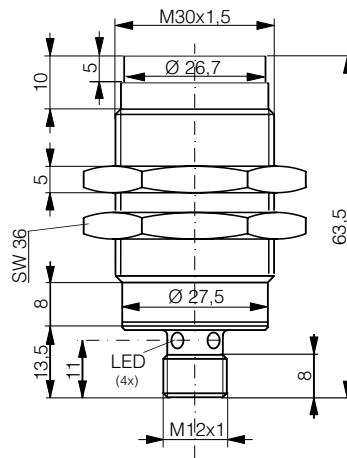
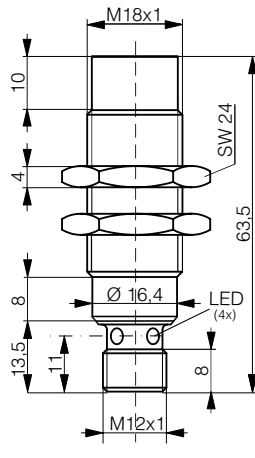




CONTRINET

LOW FREQUENCY READ/WRITE MODULE

HOUSING SIZE	M18	M30	M18
MAX. READ/WRITE DISTANCE MM	12	13	37



DATA			
Housing material	Stainless steel V2A	Stainless steel V2A	PBTP / chrome-plated brass
Max. current consumption	30 mA	30 mA	30 mA
Mounting	Non-embeddable	Non-embeddable	Non-embeddable
Ambient temperature range	-25...+80°C / -13...+176°F	-25...+80°C / -13...+176°F	-25...+80°C / -13...+176°F
Storage temperature range	-25...+80°C / -13...+176°F	-25...+80°C / -13...+176°F	-25...+80°C / -13...+176°F
Connection type	Connector S12	Connector S12	Connector S12
Weight (incl. nuts)	37 g	127 g	37 g
Part reference	RLS-1180-030	RLS-1300-030	RLS-1181-030



HIGH FREQUENCY READ/WRITE MODULE

M30

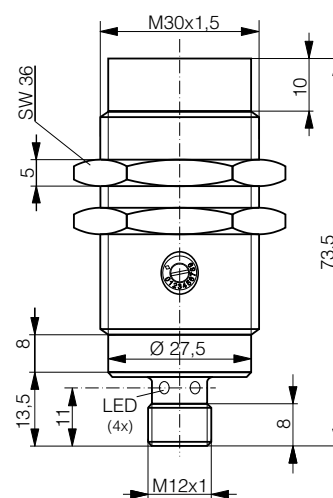
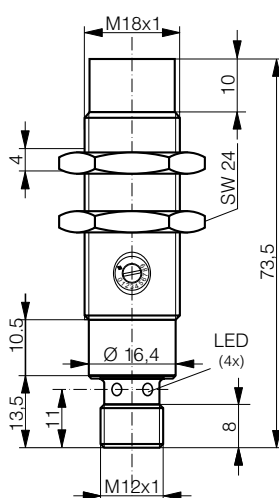
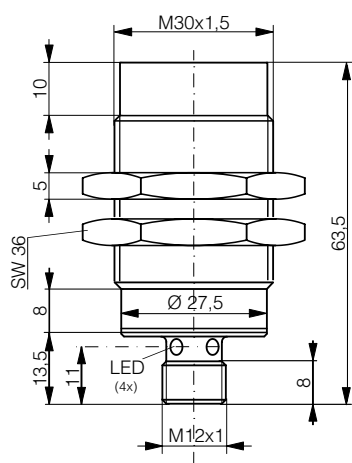
M18

M30

41

42

60



PBTP / chrome-plated brass

30 mA

Non-embeddable

-25...+80°C / -13...+176°F

Connector S12

127 g

RLS-1301-030

PBTP / Stainless steel V2A

60 mA

Non-embeddable

-25...+80°C / -13...+176°F

Connector S12

37 g

RLS-1183-020

PBTP / Stainless steel V2A

60 mA

Non-embeddable

-25...+80°C / -13...+176°F

Connector S12

95 g

RLS-1303-020

Inductive

Photoelectric

Ultrasonic

Capacitive

Safety

RFID

Connectivity

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CONTRINET

CONTRINET INTERFACES

HOUSING SIZE MM

100 X 52 X 64

FIELDBUS

PROFIBUS-DP



AT A GLANCE

- Compact, ready-to-use device
- Allows connection of ContriNet to an industrial fieldbus
- Synthetic housing in ABS
- Mounting on rail DIN EN 60715

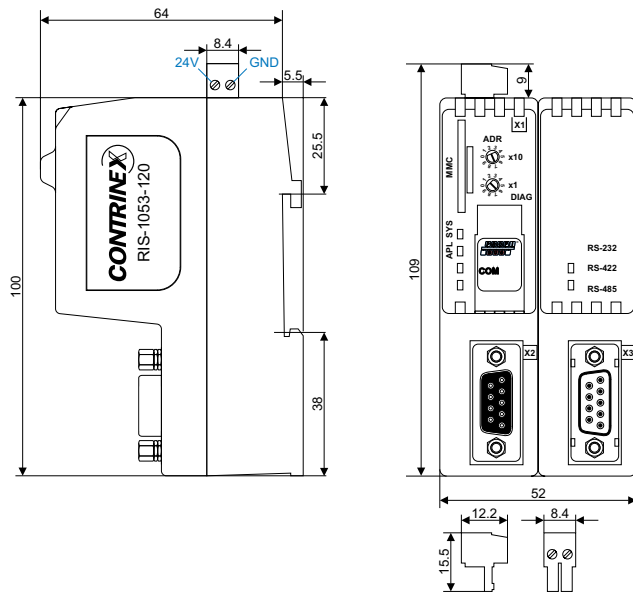
FIELDBUS

PROFIBUS-DP	RIS-1053-120
DeviceNet	RIS-1053-220
EtherNet/IP	RIS-1053-320
PROFINet IO	RIS-1053-520
EtherCAT	RIS-1053-620
POWERLINK	RIS-1053-820

FIRMWARE

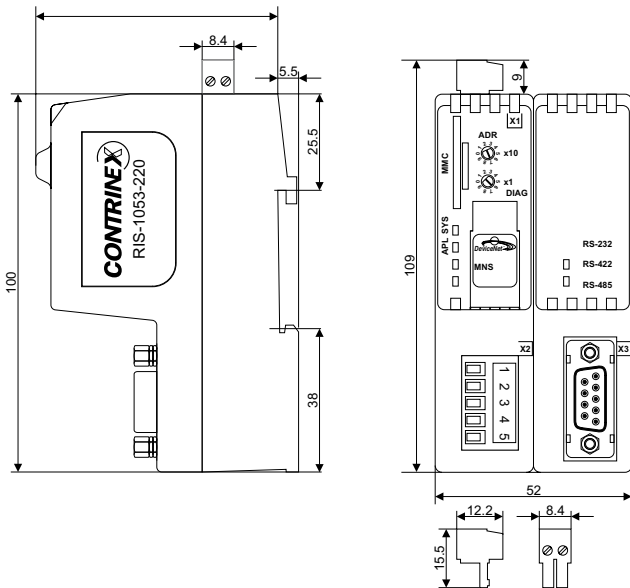
On SD card

Selectable using the RIS-1053-X20 card configurator software

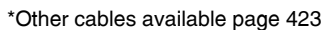


DATA

Housing material	ABS
Mounting	DIN rail EN 60715
Ambient temperature range	0 ... +50°C / +32 ... +122°F
Storage temperature range	0 ... +50°C / +32 ... +122°F
Weight	150 g
Part reference	RIS-1053-120

100 X 52 X 64		100 X 52 X 64	
DEVICENET		ETHERNET/IP / PROFINET IO ETHERCAT / POWERLINK	
			
		APL SYS MS NS APL SYS EtherCAT RUN ERR APL SYS SF BF APL SYS ETHERNET POWERLINK BS BE	
ABS		ABS	
DIN rail EN 60715		DIN rail EN 60715	
0 ... +50°C / +32 ... +122°F		0 ... +50°C / +32 ... +122°F	
0 ... +50°C / +32 ... +122°F		0 ... +50°C / +32 ... +122°F	
150 g		150 g	
RIS-1053-220		RIS-1053-E20	

CONTRINET APPLICATION WITH INTERFACES



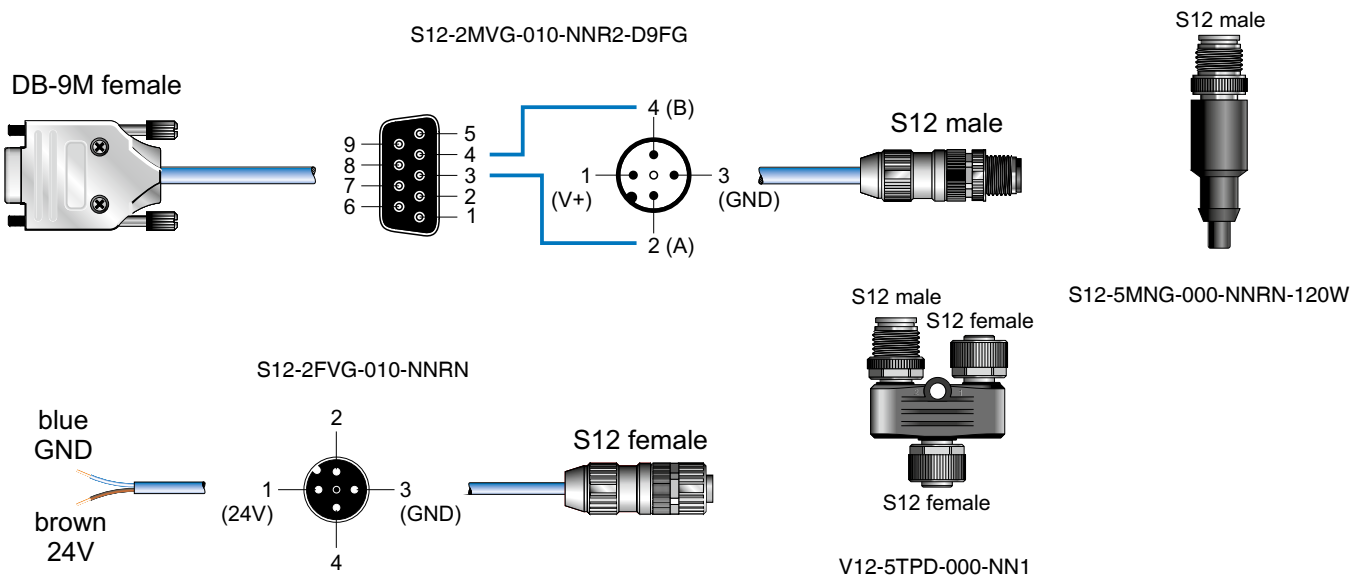
S12-2MVG-010-NNRN-D9FG	S12 - DB9 RIS HF PVC 1 m
S12-2FVG-010-NNRN	24V - S12 power supply cable
V12-5TPD-000-NN1	S12 T-connector
S12-4MNG-000-NNT2	S12 male connector
S12-4FNG-000-NNT2	S12 female connector
S12-5MNG-000-NNRN-120W	S12 ContriNet terminator 120 Ω

TCP/IP INDUSTRIAL INTERFACE



RIS-1613-400

ACCESSORIES TO CONNECT TCP/IP INTERFACE TO CONTRINET

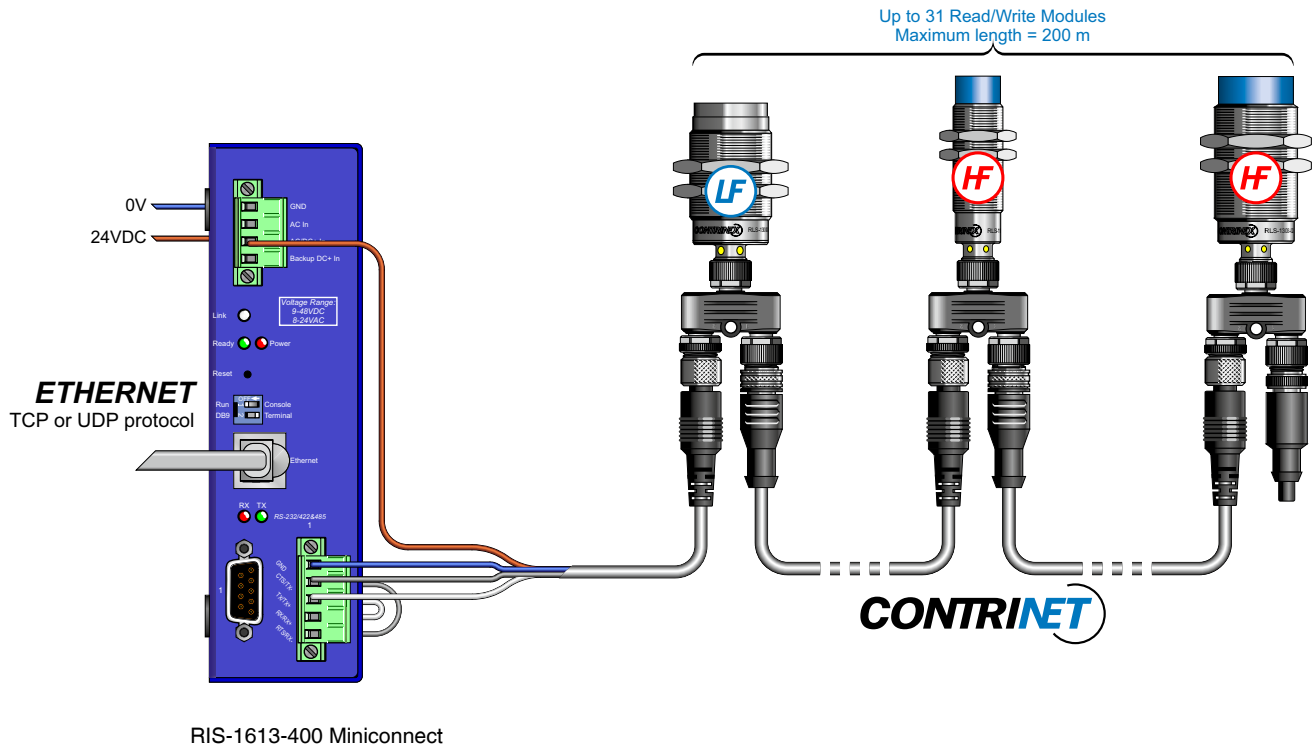


DATA

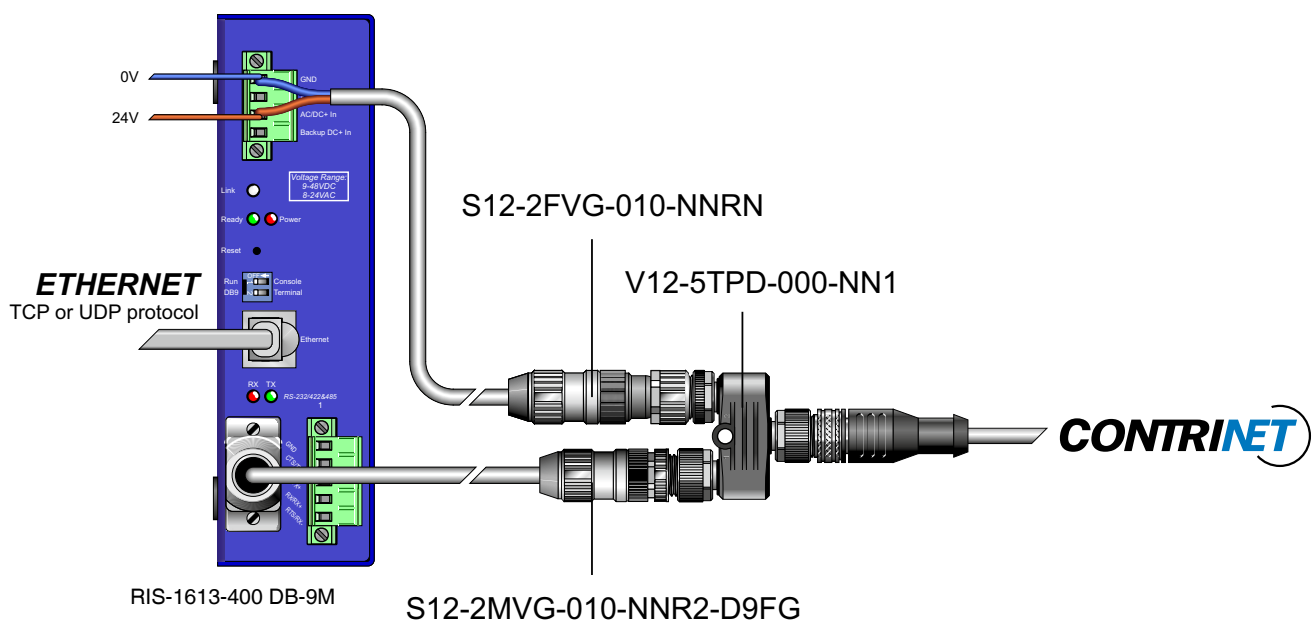
S12-2MVG-010-NNR2-D9FG	DB9 - S12 cable
S12-2FVG-010-NNRN	24V - S12 power supply cable
V12-5TPD-000-NN1	S12 T-connector
S12-5MNG-000-NNRN-120W	S12 ContriNet terminator 120 Ω

CONTRINET

APPLICATION WITH CONNECTOR MINICONNECT



APPLICATION WITH CONNECTOR DB-9M



USB ADAPTOR

HOUSING SIZE MM

67 X 66 X 28

AT A GLANCE

- Synthetic ABS housing
- Serial RS485 connection to ContriNet
- USB connection to control PC

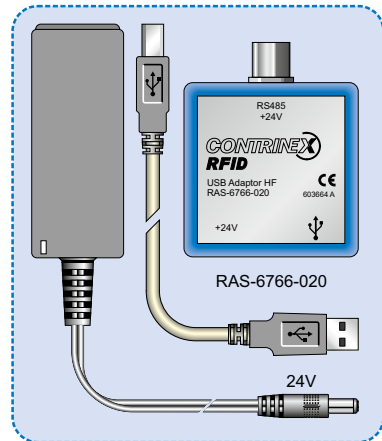
LEDS

Red LED:

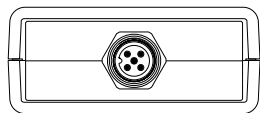
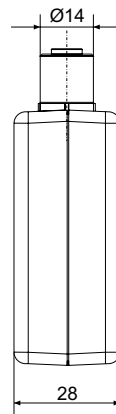
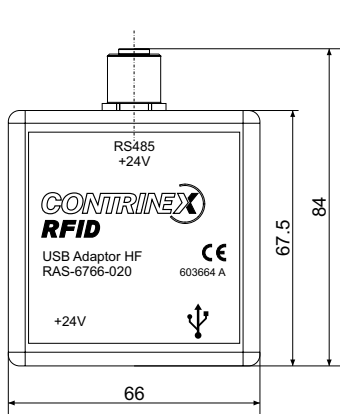
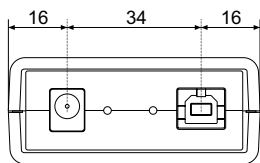
Describes the connection control PC - USB connector.

Green LED:

Indicates that the device is fed by an external power supply unit.



The set contains:
1 USB adaptor, 1 power supply, 1 USB cable



DATA

Housing material	ABS
Power supply	24 V
Max. current consumption	625 mA
Connection (RS485 side)	Connector S12
Ambient temperature range	0 ... +50°C / +32 ... +122°F (with external power supply unit)
Storage temperature range	-40 ... +85°C / -40 ... +185°F
Weight	67 g
Part reference	RAS-6766-020

Inductive

Photoelectric

Ultrasonic

Capacitive

Safety

RFID

Connectivity

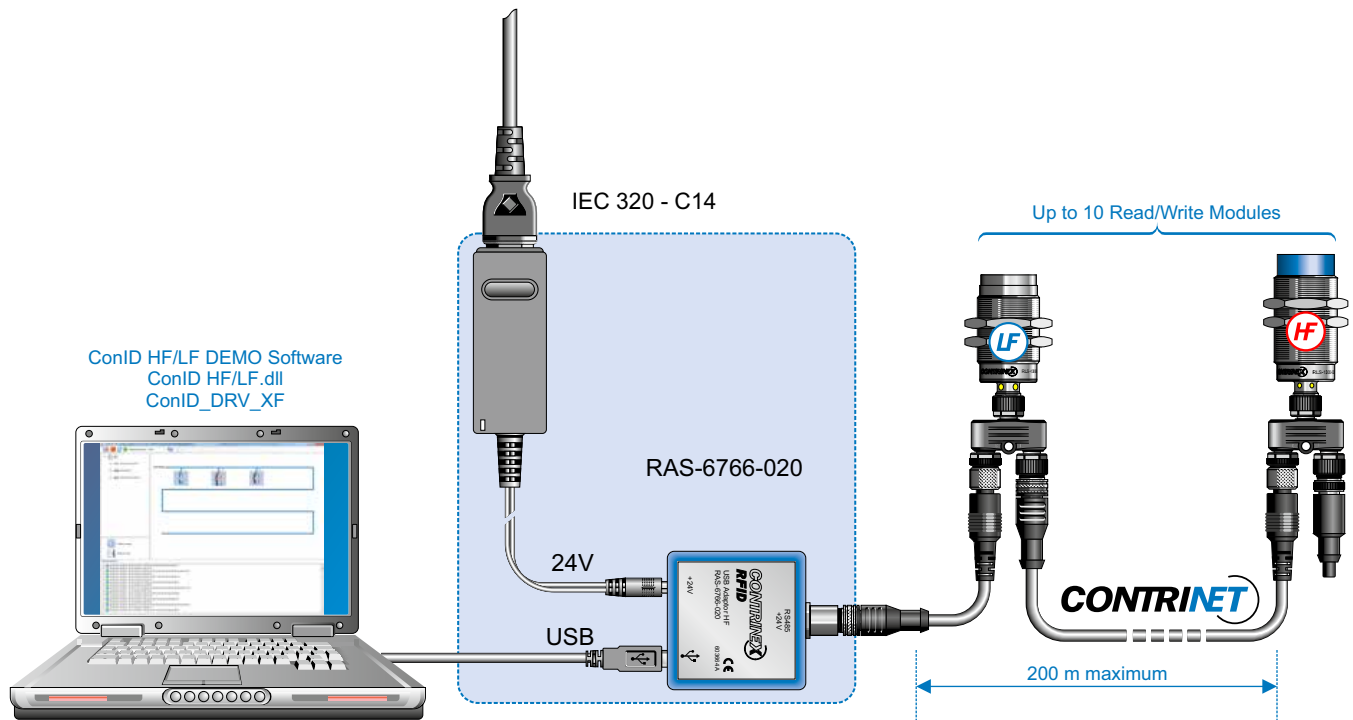
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APPLICATION WITH USB ADAPTOR



CONNECTION

The adaptor acts as the interface between a network of Read/Write Modules and the USB port of the control PC. The delivery package includes a USB cable.

EXTERNAL POWER SUPPLY UNIT

An external power supply unit (24V / 15W, 625 mA) is included in the delivery package.

DRIVERS AND SOFTWARE

Drivers (ConID Driver XX) compatible with the various Windows versions and software for demonstration and training use (ConID HF/LF) can be downloaded from the Contrinex website.

