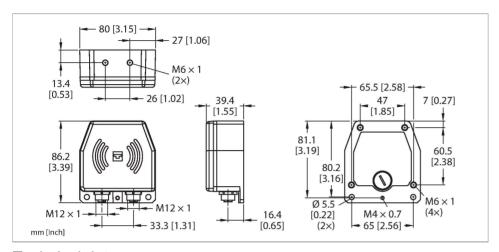


# NICS-Q86-ETH-HK1141 Inductive coupler – Secondary Side





Туре	NICS-Q86-ETH-HK1141		
ID	100050311		
max. transmission distance	10 mm		
max. offset	5 mm		
Maximum Angular Misalignment	15 °		
General data			
Mounting conditions	Non-flush		
Electrical data			
Operating voltage U <sub>B</sub>	24 VDC		
DC rated operating current I <sub>o</sub>	≤ 2000 mA		
Short-circuit protection	yes		
Nominal transmission capacity	50 W		
Input function	Ethernet		
Transmission rate Ethernet	10/100 Mbps		
Protocol detection	automatic		
Startup time (typ.)	2000 ms		
Fast Startup/QuickConnect	450 ms		
Mechanical data			
Design	Rectangular, Q86		
Dimensions	86.2 x 80 x 39.4 mm		
Housing material	Die-cast zinc		
Active area material	Plastic, PBT		
Electrical connection	Connector, M12 × 1, L-coded		
Connection technology Ethernet	1 x M12, 4-pin, D-coded		

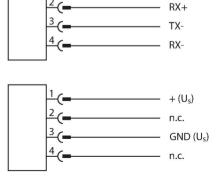


#### **Features**

- Rectangular
- Metal housing, die-cast zinc
- Plastic cover, PBT
- ■Max. 10 mm transmission distance
- ■100 Mbps, full duplex
- ■Latency < 1 µs
- Power OUT: DC 2-wire, 24 VDC
- Power OUT: female connector, M12 × 1 (L-coded)
- Data IN/OUT: Ethernet (protocol independent)
- Data IN/OUT: female connector, M12 × 1 (D-coded)

oodou)

## Wiring diagram



### Functional principle

Inductive couplers are used for the noncontact transmission of power and data. With a high-



### Technical data

Environmental conditions			
Ambient temperature	-20+55 °C		
	Observe derating/heat dissipation, see manual		
Vibration resistance	55 Hz (1 mm)		
Shock resistance	30 g (11 ms)		
Protection class	IP65		
MTTF	126 years Acc. to SN 29500 (Ed. 99) 25 °C, duty cycle 21 %		

frequency alternating field, power is transmitted at a frequency of 110...148.5 kHz and data at 60 GHz. The power-supplied primary part NICP supplies the secondary part NICS via the air interface, while full-duplex data communication can take place between the devices.

## Wiring accessories

Dimension drawing	Туре	ID	
	RKP46PL-2-RSP46PL	UX11803	Extension cable, M12 female connector, straight, 4-pin, L-coded; M12 male connector, straight, 4-pin, L-coded; cable length: 2 m, jacket material: TPU, black
	PSU67-1P-1S-2L-24150-IOL-F	100028305	1-phase power supply unit in IP67, 24 VDC, 15-A output current with IO-Link
	PSU67-11-2440/M	6884141	Power supply unit in IP67, 24 VDC, 4 A output current
	RSSD-RSSD-441-2M	U-02482	Cable for Industrial Ethernet, M12 male connector, D-coded, straight to M12 male connector, straight, cable length: 2 m, jacket material: TPE, teal