

1 DeviceNet ECO Fieldbus Coupler

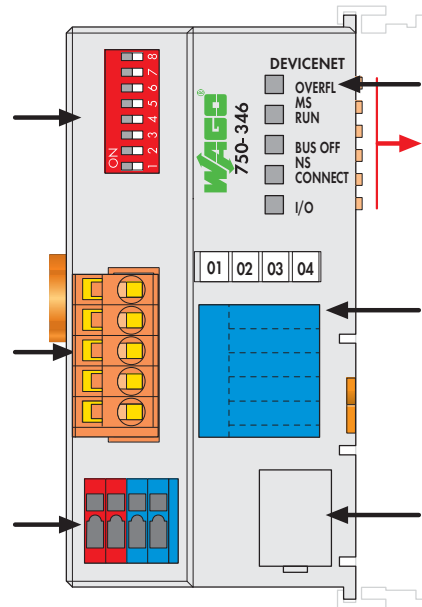
122 125 ... 500 Kbaud; digital and analog signals



DIP switch
for MAC ID
and baud rate

Fieldbus
connection
231 Series (MCS)

Supply
24 V
0 V



Status indication
-Fieldbus
-Fieldbus note

Data contacts

Marking area


Configuration
interface

The ECO fieldbus coupler is designed for applications with a reduced scale I/O requirement. Using digital only process data or small amounts of analogs, while retaining all of the choice that's offered by the Series 750 I/O. The coupler has an integrated supply terminal for the system voltage. The field power jumper contacts are supplied via a separate supply module. The DeviceNet™ buscoupler automatically configures, creating a local process image which may include analog, digital or specialty modules. DeviceNet™ stores the process image in the corresponding Master control (PLC, PC or NC).

The local process image is divided into two data zones containing the data received and the data to be sent. The process data can be sent via the DeviceNet™ fieldbus to the PLC, PC or NC for further processing, and received from the field via DeviceNet™.

The data of the analog modules is stored in the process image which is created automatically according to the order in which the modules are connected to the buscoupler. The bits of the digital modules are sent byte by byte and added to the analog data. If the amount of digital information exceeds 8 bits, the buscoupler automatically starts with a new byte.

Notice: EDS files required

Description	Item No.	Pack. Unit
DeviceNet ECO	750-346	1
Accessories		
EDS files	Download: www.wago.com	
Miniature WSB Quick marking system		
	plain	248-501 5
	with marking	see pages 352 ... 353
Approvals		
	Also see "Approvals Overview" in Section 1	
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
IEC 60079-0, -15	BR-Ex nA II T4	
EN 60079-0, -15	I M2 / II 3 GD Ex nA nL IIC T4	
EN 61241-0, -1		

System Data	
No. of couplers connected to Master	64 with scanner
Max. no. of I/O points	approx. 6000 (depends on master)
Transmission medium	Shielded Cu cable Trunk line: 2 x 0.82 mm ² + 2 x 1.7 mm ² Drop line: 2 x 0.2 mm ² + 2 x 0.32 mm ²
Max. length of bus line	100 m ... 500 m (depends on baud rate/ cable)
Baud rate	125 Kbaud, 250 Kbaud, 500 Kbaud
Buscoupler connection	5-pole male connector, 231 Series (MCS), female connector 231-305/ 010-000/ 050-000 (included)