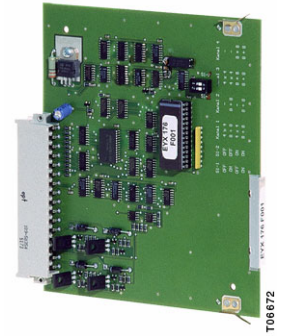


## EYX176: nova106, Driver card for field module (digital input)

The driver card forms the interface to four moduLink174 field modules. It uses a special field telegram to effect the receipt of the information supplied by the field modules.

The field modules are connected via novaLink; the distance should be no more than 100 metres.

Application: for registering DI information via the external moduLink174 field modules



### Products

Type	Description	Slots	Weight (kg)
EYX176F001	DI driver card	1 to 7	0.3

### Technical Data

#### Electric supply

Connectable field module:	
moduLink174	4x EYY174F101
Number of resultant	
Digital inputs	64
Power supply	from rack
Max. current	600 mA
Power loss, max.	approx. 7.2 W
Field telegram novaLink	100 m max. (5 nF/7.5 Ω) twisted and shielded both ends to earth

#### Permitted ambient conditions

Operating temperature	0...45 °C
Storage and Transport temperature	-25...70 °C
Humidity	10...90% rh no condensation

#### Standards, guidelines and directives

CE conformity as per	
EMC Directive 2004/108/EC	EN 61000-6-1/EN 61000-6-2
	EN 61000-6-3/EN 61000-6-4

#### Additional information

Fitting instructions	MV 505541
Wiring diagram	<a href="#">A05962</a>

### Engineering notes

- The card is inserted into either a EYU109 or EYU108 rack.
- The (up to) four novaLink174 field modules (16 DI) are connected via novaLink. Each field module has its own connection. The field telegram and the power supply are transmitted via this point-to-point link.
- The card has no optical indicator elements. These are located on the field modules and can indicate the contact status via red or green LEDs.
- By encoding DIL switches S1-1 and S1-2 accordingly, it is possible to set every driver-card function (MFA) for 8 alarm/status messages, 8 FWC or 2 × 4 FWC.

### Switch Block S1

Duct		1	2	3	4
Terminal		1-2	3-4	5-6	7-8
<b>S1-1</b>	<b>S1-2</b>				
Off	Off	4 × 4	–	4 × 4	–
On	Off	8 + 8	8 + 8	4 × 4	–
Off	On	4 × 4	–	8 + 8	8 + 8
On	On	8 + 8	8 + 8	8 + 8	8 + 8

Applications for alarm/status or feedback signals

EYY 174 F101		4	5	6	7		1	2	
DI filed module		⊥	⊥	⊥	⊥		⊥	△	
						novaLink			
		F1		F2					
CI./Bit	Stage	CI./Bit	Stage	CI./Bit	Stage	CI./Bit	Stage		
8/24	⊗ 0/1	12/28	⊗ 0/1	16/24	⊗ 0/1	20/28	⊗ 0/1		
9/25	⊗ 0/1	13/29	⊗ 0/1	17/25	⊗ 0/1	21/29	⊗ 0/1		
10/26	⊗ 0/1	14/30	⊗ 0/1	18/26	⊗ 0/1	22/30	⊗ 0/1		
11/27	⊗ 0/1	15/31	⊗ 0/1	19/27	⊗ 0/1	23/31	⊗ 0/1		
△	△	△	△	△	△	△	△	△	
8	9	10	11	12	13	14	15	16 17 18 19 20 21 22 23	

2x8 Al./ St. K1 - K9

EYY 174 F101		4	5	6	7		1	2	
DI field module		⊥	⊥	⊥	⊥		⊥	△	
						novaLink			
		F1		F2		4x4 FWC		F3 F4	
CI./Bit	Stage	CI./Bit	Stage	CI./Bit	Stage	CI./Bit	Stage		
8/28	⊗ A	12/28	⊗ A	16/28	⊗ A	20/28	⊗ A		
9/29	⊗ II	13/29	⊗ II	17/29	⊗ II	21/29	⊗ II		
10/30	⊗ L	14/30	⊗ L	18/30	⊗ L	22/30	⊗ L		
11/31	⊗ I	15/31	⊗ I	19/31	⊗ I	23/31	⊗ I		
△	△	△	△	△	△	△	△	△	△
8	9	10	11	12	13	14	15	16 17 18 19 20 21 22 23	

4x4 FWC K1 - K7

EYY 174 F101		4	5	6	7		1	2	
DI field module		⊥	⊥	⊥	⊥		⊥	△	
						novaLink			
		F1		2x8 FWC		F2			
CI./Bit	Stage	CI./Bit	Stage	CI./Bit	Stage	CI./Bit	Stage		
8/24	⊗ A	12/28	⊗ III	16/24	⊗ A	20/28	⊗ III		
9/25	⊗ II	13/29	⊗ IV	17/25	⊗ II	21/29	⊗ IV		
10/26	⊗ L	14/30	⊗ VI	18/26	⊗ L	22/30	⊗ VI		
11/27	⊗ I	15/31	⊗ V	19/27	⊗ I	23/31	⊗ V		
△	△	△	△	△	△	△	△	△	△
8	9	10	11	12	13	14	15	16 17 18 19 20 21 22 23	

2x8 FWC K1 - K9

B10661b

Overview of terminals and functions

Terminal	LED	Function	Bit	Al./St. 2x8	FB 2x8	Funktion	Bit	F B 4x4
8	1	F1-1	24	0/1	III	F3-5	28	A
9	2	F1-2	25	0/1	IV	F3-6	29	II
10	3	F1-3	26	0/1	VI	F3-7	30	OE
11	4	F1-4	27	0/1	V	F3-8	31	I
12	5	F1-5	28	0/1	A	F1-5	28	A
13	6	F1-6	29	0/1	II	F1-6	29	II
14	7	F1-7	30	0/1	OE	F1-7	30	OE
15	8	F1-8	31	0/1	I	F1-8	31	I
16	9	F2-1	24	0/1	III	F4-5	28	A
17	10	F2-2	25	0/1	IV	F4-6	29	II
18	11	F2-3	26	0/1	VI	F4-7	30	OE
19	12	F2-4	27	0/1	V	F4-8	31	I
20	13	F2-5	28	0/1	A	F2-5	28	A
21	14	F2-6	29	0/1	II	F2-6	29	II
22	15	F2-7	30	0/1	OE	F2-7	30	OE
23	16	F2-8	31	0/1	I	F2-8	31	I

