

C40 *AUTOMATION*

INDUCTIVE COUPLING SYSTEM IDEAL FOR GRIPPER CHANGING SYSTEMS AND PALLET CHANGE APPLICATIONS

CONTACT FREE TRANSMISSION OF ENERGY AND SIGNALS

Operation of sensors in
gripper changing systems (EOAT)
and pallet change applications

FLEXIBLE
Dynamic Pairing
Easy retrofit solution

**PROTECTIVE
FUNCTIONS**
Temperature monitoring,
foreign object detection,
reverse polarity protection



C40-IOL

Axial coupler

Inductive Coupling System

- Contact free transmission of energy and signals
- Ideal for gripper changing systems and pallet change applications



Application/customer benefits

- Contact free transmission of energy and signals between moving and stationary components
- Application examples: Operation of sensors in gripper changing systems (EOAT) and pallet change applications
- Plug & work retrofit kits
- Dynamic Pairing
- Wear and maintenance free
- Protective functions: Temperature monitoring, foreign object detection, reverse polarity protection

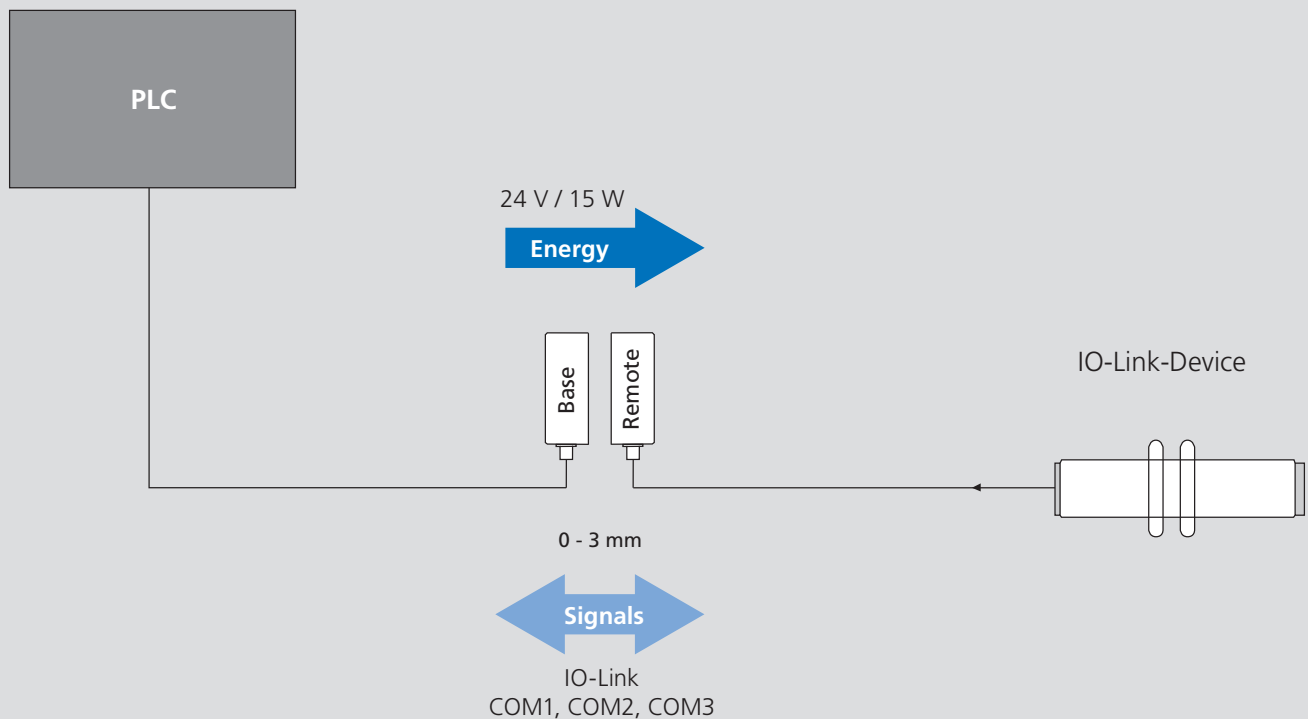
Technical features

- Mounting via 2 x M4 mounting screws (stainless steel)
- Operating voltage 24 V (18 ... 30 V)
- Transmission distance 0 - 3 mm
- Transmission of energy 24 V / 15 W
- Transmission of signals: 1 x IO-Link (COM 1, COM 2, COM 3)
- Connections: Base: M12 x 1 male 5-pin,
Remote: M12 x 1 female 5-pin
- Protection class: IP67

Standard equipment

Inductiv coupler base or remote with each 2 mounting bolts

Block diagramm



Subject to technical changes.
For more detailed information please ask our customer service.

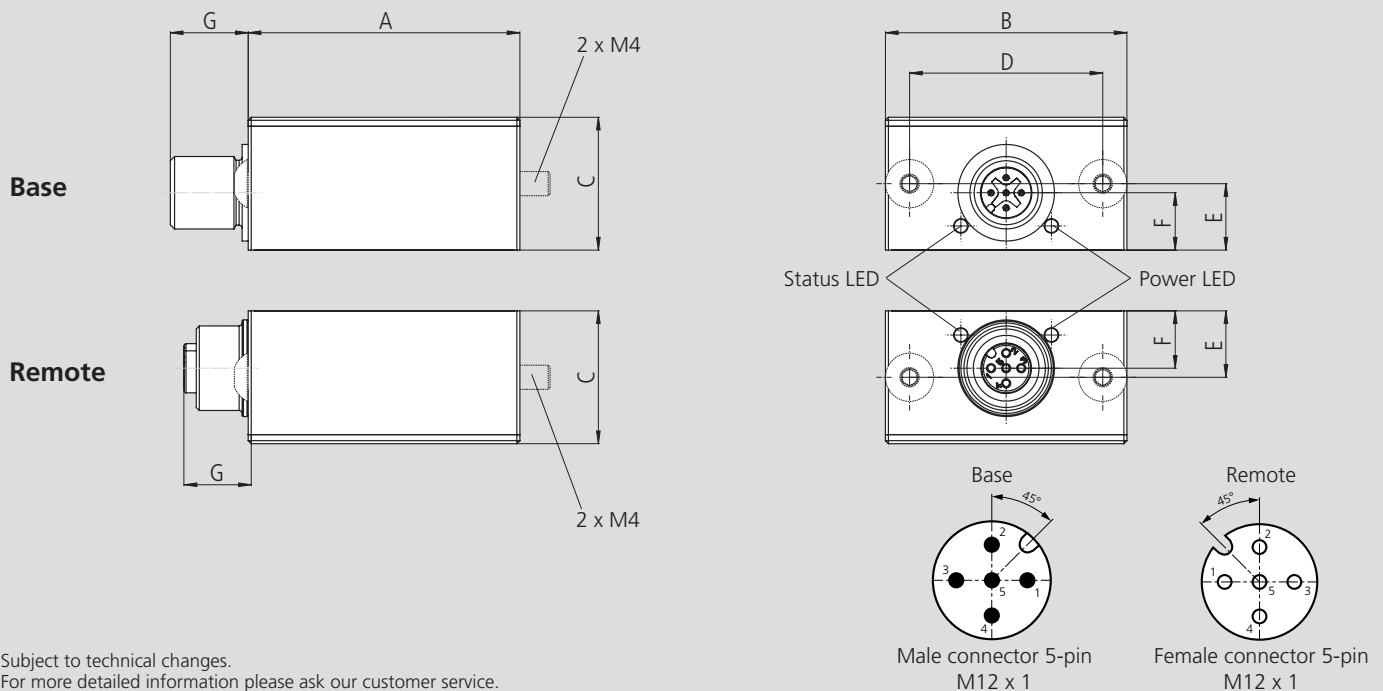
IO-Link

Inductive Coupling System

C40-IOL

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Axial coupler



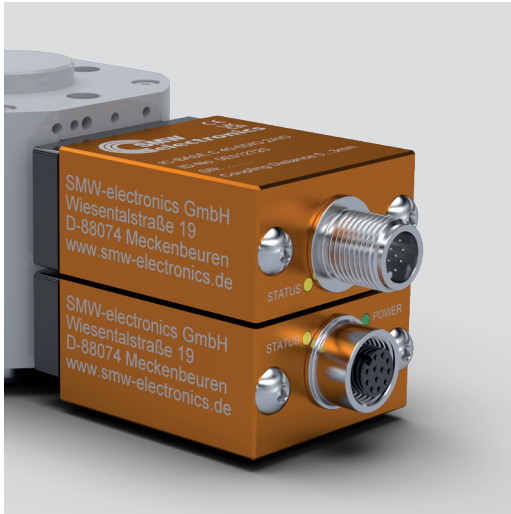
Inductive coupling system C40-IOL				
Type		Base		Remote
Id. No.		0E012615		0E012616
A	mm	45		
B	mm	40		
C	mm	22		
D	mm	32		
E	mm	11		
F	mm	9.5		
G	mm	13		10.6
H	mm	M12 x 1 / Male		M12 x 1 / Female
Housing material		AL, V2A, FR4		
Protection class		IP67		
Operating temperature		-20° C ... +50° C		
Storage temperature		-20° C ... +80° C		
Transmission distance		0 - 3 mm		
Weight	kg	0.09		0.09
Operating voltage		24 V (18 ... 30 V)		-
Output voltage		-		24 V ± 10% DC
Power consumption (Base)		2000 mA		-
Power output (Remote)		-		625 mA
Overload protection / short circuit protection		✓		✓
Residual ripple		-		< 200 mV
Reverse polarity protection		✓		-
Temperature monitoring		✓		✓
Data-Valid Output		150 mA		-
Ready delay		< 600 ms		
PIN assignment		Signal Base		Signal Remote
Supply voltage	1	24 V IN		24 V OUT
Digital signal	2	-		-
Ground	3	GND		GND
IO-Link Signal	4	IO-Link CQ		IO-Link CQ
Data-Valid	5	DAV 24 V		-

C40-2x 0-10V / 6PNP

Axial coupler

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- Plug & work retrofit kits
- Dynamic Pairing
- Wear and maintenance free
- Protective functions: Temperature monitoring, foreign object detection, reverse polarity protection

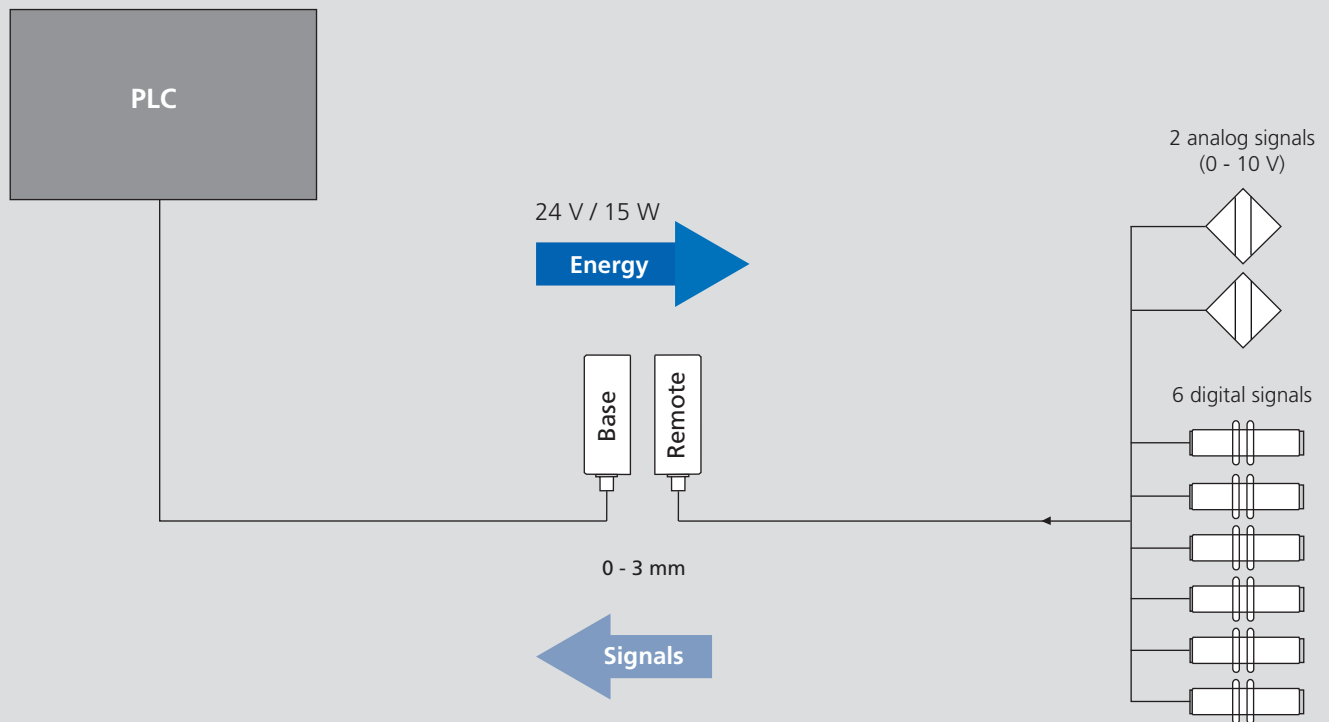
Technical features

- Mounting via 2 x M4 mounting screws (stainless steel)
- Operating voltage 24 V (18 ... 30 V)
- Transmission distance 0 - 3 mm
- Transmission of energy 24 V / 15 W
- Transmission of signals: 6 x PNP, 2 x Analog 0 - 10 V
- Connections: Base: M12 x 1 male 12-pin,
Remote: M12 x 1 female 12-pin
- Protection class: IP67

Standard equipment

Inductiv coupler base or remote with each 2 mounting bolts

Block diagram



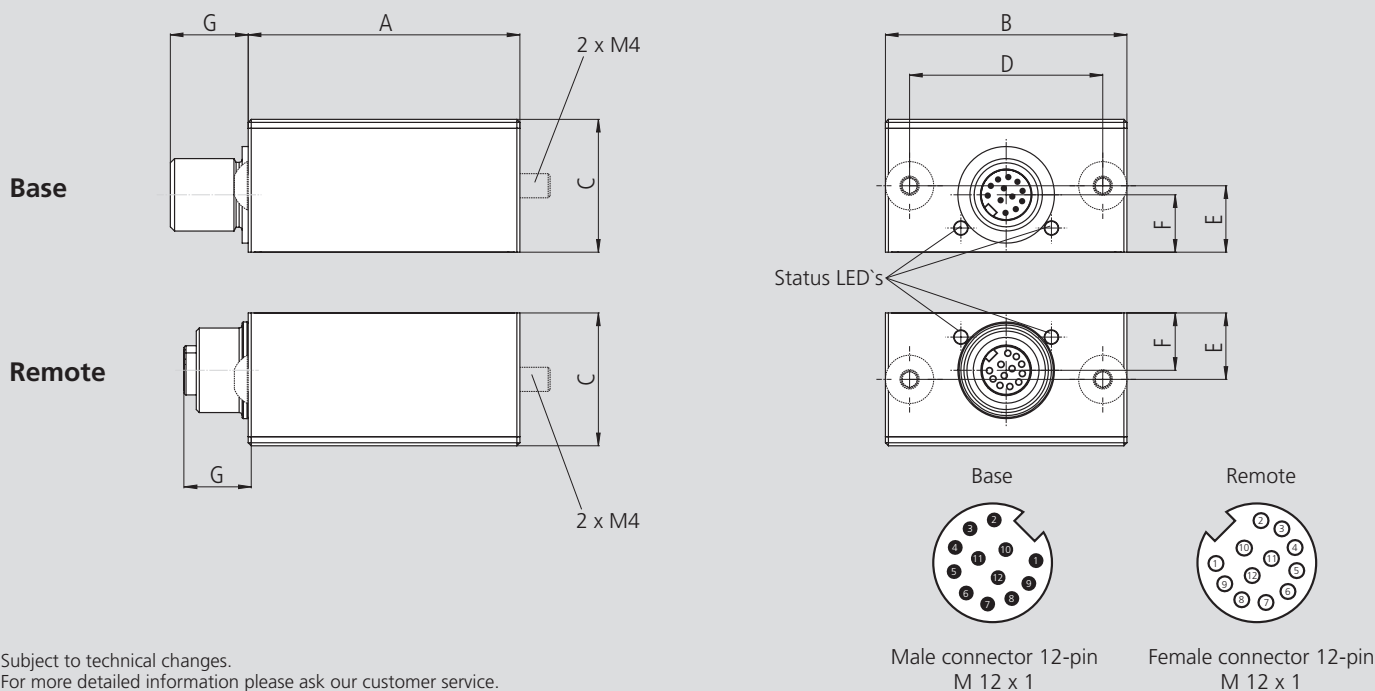
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Inductive Coupling System

- Contact free transmission of energy and signals
- Ideal for gripper changing systems and pallet change applications

C40-2x 0-10V / 6PNP

Axial coupler



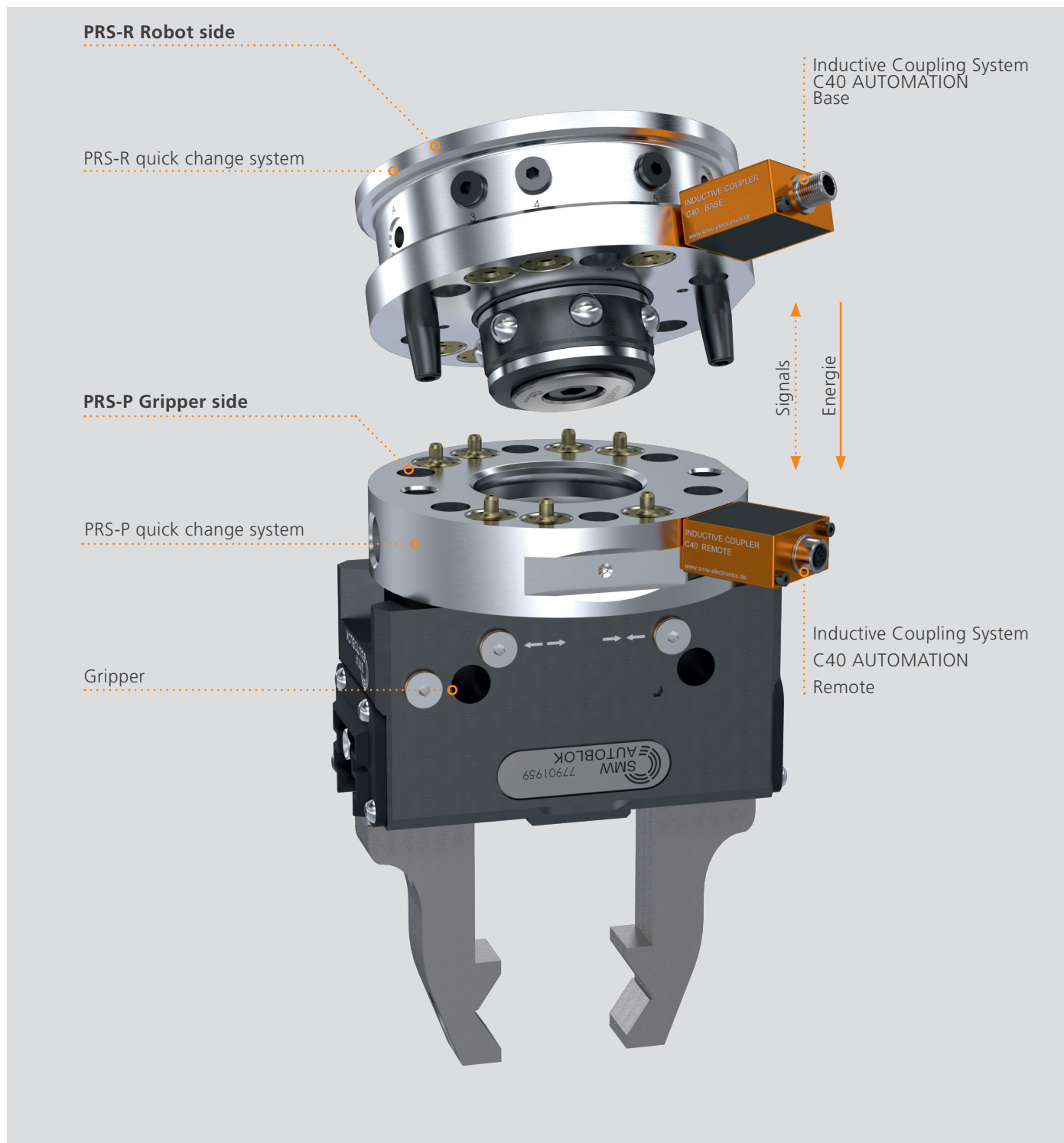
Inductive coupling system C40-2x 0-10V / 6PNP

Type		Base		Remote
Id. No.		0E012720		0E012721
A	mm	45		
B	mm	40		
C	mm	22		
D	mm	32		
E	mm	11		
F	mm	9.5		
G	mm	13		10.6
H	mm	M12 x 1 / Male		M12 x 1 / Female

Housing material		AL	
Protection class		IP67	
Operating temperature		-20° C ... +50° C	
Storage temperature		-20° C ... +80° C	
Transmission distance		0 - 3 mm	
Weight	kg	0.09	0.09
Operating voltage		24 V (18 ... 30 V)	-
Output voltage		-	24 V ± 10% DC
Power consumption (Base)		2000 mA	-
Power output (Remote)		-	625 mA
Overload protection / short circuit protection		✓	✓
Residual ripple		-	< 200 mV
Reverse polarity protection		✓	-
Temperature monitoring		✓	✓
Data-Valid Output		150 mA	-
Ready delay		< 600 ms	

PIN assignment		Signal Base	Signal Remote
Supply voltage	1	24 V IN	24 V OUT
Ground	2	GND	GND
Digital signal 1	3	0/24 V OUT	0/24 V IN
Digital signal 2	4	0/24 V OUT	0/24 V IN
Digital signal 3	5	0/24 V OUT	0/24 V IN
Digital signal 4	6	0/24 V OUT	0/24 V IN
Digital signal 5	7	0/24 V OUT	0/24 V IN
Digital signal 6	8	0/24 V OUT	0/24 V IN
Analog signal 1	9	0 ... 10 V OUT	0 ... 10 V IN
Analog signal 2	10	0 ... 10 V OUT	0 ... 10 V IN
	11	Analog GND	-
Data-Valid	12	DAV 24 V	-

Application: C40-IOL on PRS quick change system



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