Controls

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FlexLink Device Platform Accessories		X45
		XS
		X65
		X65F
7119		X85
CON ETH 1 XI TO XI	15	X85F
	x6 x7 X7	ХН
		ХК
		XKP
		X180
		X300
		GR
		CS
		XT
		HU
FlexLink Device Platform Components		WL
The FlexLink Device Platform (FDP):	The FlexLink Device Platform (FDP) includes such	 WK
is multipurpose,	groups of components: SCDCs - field logic controllers with Embedded Software	
 has a wide range of communication possibilities, 	to support the Distributed Controls concept.	ХU
can standardize interfaces,	SCMDs - integrated motors (e.g.: Hypergear Wormgear	XF
 is a proven, easy-to-use enabler for modularity and connectivity as well as 	d Motor, and Hyperdrive Stepper Motor) to standardized controls layer and due to that supports a wide range of mechatronic functions.	
 an enhanced mechatronics offer to the whole 		

an enhanced mechatronics offer to the whole FlexLink portfolio.

SCPDs - power distribution devices to provide power ELV supply to the FDP components.

Communication interfaces for drive units......512

SC

P0

CC

- FST
- TR
- APX
- IDX

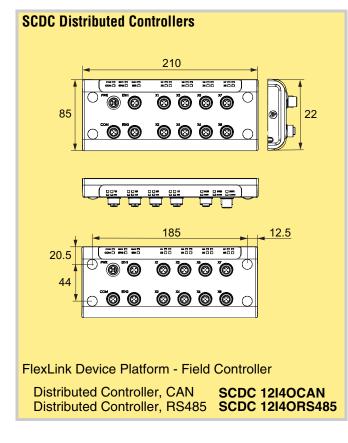
SCDC

The SCDC is a configurable and robust field logic controller design for decentralized applications. It is available in two hardware versions: CANopen or RS485. The SCDC is delivered with Embedded Software and can be used in various applications. FlexLink is using SCDC for:

- FlexLink generic firmware applications where the SCDC device mirrors and translates PLC controls to the field equipment (e.g., sensors, CAN drives, and many more), and brings a standard interface for PLC controls as well as the standard interface for Digital Services (through MQTT). This approach is used in the conveyor systems provided by FlexLink.
- Dedicated platform-specific implementations where SCDC is used to fulfil required algorithms to control FlexLink standard products.

SCDC provides a wide range of communication possibilities, including PROFINET, EtherNet/IP, and the MQTT, as well as field communication such as IO-Link, CANopen, RS485, and local I/O. This wide range of communication possibilities allows the user to connect with many devices for example PLC, IoT devices and IT servers, HMI, distributed frequency inverters to control conveyors, CANopen drives, barcode readers, RFID readers, IO-Link devices and IO-Link hubs, and sensors or actuators through local I/O.

Due to the wide range of communication possibilities, the SCDC and the whole FlexLink Device Platform are ready and compatible with a wide range of external components from 3rd party suppliers. For detailed information, please refer to the technical documentation.



Communication possibilities



Technical data

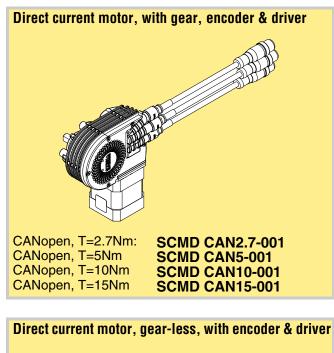
	SCDC 12I4OCAN	SCDC 12I4ORS485
M12 connector		
PWR	24 V _{DC} , T-coded	
СОМ	CAN	RS485
ETH	2 x Ethernet ports	
X1-X4	4 x (IO-Link + DI)	
X5, X6	2 x (DI + DI)	
X7, X8	2 x (DO + DO)	
Diagnose LED	1 x power 1 x Run 2 x LAN activity 1 x error, 1 x CAN activity 8 x IOs	
Dimensions WxHxD [mm]	210x85x35	
Max power loss [W]	4.5	
Weight [g]	900	
EMC	Conforms to IEC 61000-6-2 and IEC 61000-6-4	
IP-rating	IP65 according to IEC 60529	
Temperature [°C]	Operating ambient: -20 to +55 Storage: -20 to +60	
Humidity [%]	Relative 5 to 95 no condensation	
Compliance	CE	
Included in delivery	1 x SCDC 12I4OCAN 4 x M5 x 16 - 8.8 - A2I 4 x end plugs	

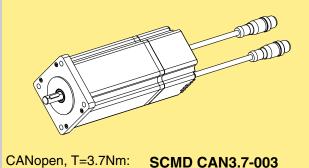
SCMD

The SCMD Integrated Motors are equipped with singleturn encoders and are ready-to-use mechatronic drives that allow FlexLink to build electrical functions with precise positional control of mechanical systems such as stoppers, diverters, mergers, and many more.

Note!

The SCMD Integrated Motors can be used only with the SCDC Distributed Controller.





The SCPD, Power Distributor components provide com- pact power distribution for 24V _{DC} to supply other Flex-			CC
Link Device Platform components. The M12 connector is used, and power boxes are available in three different			X45
sizes/types, depending on outlet numbers, power, and connection coding (A- and T-code).			XS
Power Distributor			X65
			X65P
			X85
			X85P
Power Box (4 ports 24V) A-code M12 A-code SCPD 424VDC16A			ХН
Bracket kit FLX1000458			XK
Technical data			XKP
SCPD 424VDC16A	r		
Dimensions WxHxD [mm]			X180
Weight [g]	320		Vວບບ
Max power loss [W]	4.8		X300
EMC	Conforms to IEC 61000-6-2 and IEC 61000-6-4		GR
IP-rating	-	ctors must be plugged	
Temperature [°C]	Operating ambient: -20 to +55 Storage: -20 to +60		CS
Humidity [%]	Relative 5 to 95, no condensation		XT
Compliance	CE		
	POWER	X1 - X4	HU
Туре	M12 T-Power male 4-pin	M12 A-coded female 4-pin	WL
Fuses No		WK	
Current I _{max} [A]	10 4		
Nominal voltage	24 V _{DC} (L+=24V _{DC} L -=0V _{DC})		XC
Voltage 18 - 30 V _{DC}		VE	
			XF

XD

ELV

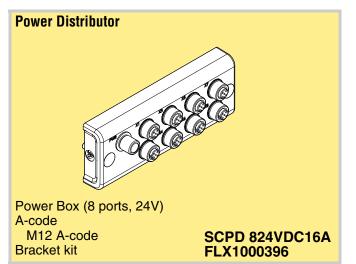
SC

FST

TR

APX

IDX



Power Distributor Four Distributor Power Box (4 ports, 24V) T-code M12 T-c

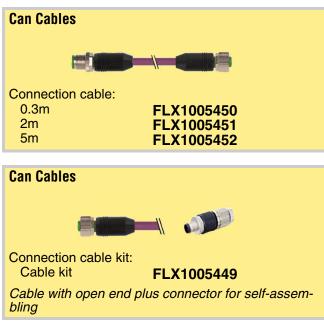
Technical data

SCPD 824VDC16A		
Dimensions WxHxD [mm]	147x56x20	
Weight [g]	500	
Max power loss [W]	4.8	
EMC	Conforms to IEC 61000-6-2 and IEC 61000-6-4	
IP-rating	IP65, unused connectors must be plugged	
Temperature [°C]	Operating ambient: -20 to +55 Storage: -20 to +60	
Humidity [%]	Relative 5 to 95, no condensation	
Compliance	CE	
	POWER	X1 - X8
Туре	M12 T-Power male 4-pin	M12 A-coded female 4-pin
Fuses	No	
Current I _{max} [A]	10	4
Nominal voltage	24 V _{DC} (L+=24V _{DC} L -=0V _{DC})	
Voltage	18 - 30 V _{DC}	

Technical data

SCPD 424VDC16A H		
Dimensions WxHxD [mm]	212x60x64 (Power box without connector)	
Weight [g]	700	
IP-rating	IP66, IP67	
Temperature [°C]	Operating ambient: -25 to 60 Storage ambient: -25 to 80	
	X1 - X4	
Fuses	Yes	
Current I _{max} [A]	10	
Nominal voltage	24 V _{DC}	
Voltage	Max 30,5 V _{DC}	

Cables



Connectors		CC
Can Connectors		X45
		XS
		X65
T-connector, 5-pin	FLX1005446	X65P
Can Connectors		X85
		X85P
Fieldbus termination:		XH
CAN, male	FLX1005447	XK
Can Connectors		XKP
		X180
Fieldbus termination:		X300
Connector 5-pin male	FLX1005448	GR
		CS
		XT
		HU
		WL
		WK
		XC
		XF
		XD
		ELV
		SC
		FST
		TR
		APX
		IDX

P0

Communication interfaces for drive units

Profibus, and DeviceNet, Profinet and Ethernet/IP type fieldbus interfaces are available. Type Z6 includes a power switch.

Field bus interfaces	
Field bus interfaces Z.6 Profibus (4 digital inputs and 2 digital outputs included, M12)	5057737
Z.6 DeviceNet (4 digital inputs and 2 digital outputs included, M12)	5057738
Z.6 Profinet (4 digital inputs and 2 digital outputs included, M12)	5122718
Z.6 Ethernet/IP (4 digital inputs and 2 digital outputs included, M12)	5122719

Accessories

