

NC series - IO-Link Masters, I/O Modules and Accessories

- Industrial Ethernet connectivity products
- IO-Link Master provide a gateway to PROFINET and EtherNet/IP
- Standard building blocks make system design modular and simple
- Installation time is reduced as all cables are premade, plug and socket, making it all plug and play
- IO-Link enabled Valve Islands can be connected to a master port on a single standard cable
- Electrical design is simplified as the I/O Modules can be configured depending on the input and output requirement.
- Diagnostics can pinpoint faults in the whole network quickly and precisely
- Norgren IO-Link configuration tool (software) enables quick and easy set up of the IO-Link Master, I/O Modules and other IO-Link devices



Main technical features - IO-Link Masters

Electrical data
Operating voltage:
 20 ... 30 VDC; (US; to SELV/PELV)

Current consumption:
 300 ... 3900 mA; (US)

Protection class:
 III

Additional voltage supply:
 20 ... 30 VDC; (UA)
 Actuator supply UA

Max. current load total:
 8 A

Current rating per port:
 2 A; (adjustable: 0 ... 2; Factory setting: 2)
 Sensor supply US

Max. current load total:
 3.6 A

Current rating per port:
 2 A; (adjustable: 0 ... 2; Factory setting: 0,45)
 IO-Link - Master

Transmission type:
 COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)

IO-Link revision:
 1.1

Number of ports class A:
 4

Number of ports class B:
 4

Inputs / outputs
 Total number of inputs and outputs:
 16; (configurable)
 Inputs

Number of digital inputs:
 12; (IO-Link Port Class A: 4 x 2; IO-Link Port Class B: 4 x 1)

Switching level high:
 11 ... 30 V

Switching level low:
 0 ... 5 V

Digital inputs protected against short circuits:
 yes

Outputs
 Number of digital outputs:
 12; (IO-Link Port Class A: 4 x 1; IO-Link Port Class B: 4 x 2)
 Short-circuit proof:
 Yes

Actuator supply UA:
 Max. current load per output
 2000 mA

Sensor supply US:
 Max. current load per output
 2000 mA

Interfaces
Communication interface:
 Ethernet; IO-Link
 Ethernet - PROFINET
 Transmission standard:
 10Base-T; 100Base-TX
 Transmission rate:
 10; 100
 Protocol:
 PROFINET
 Ethernet - EtherNet/IP
 Transmission standard:
 10Base-T; 100Base-TX
 Transmission rate:
 10; 100
 Protocol:
 EtherNet/IP

Ambient temperature:
 -25...60 °C (-13 ... 140 °F)

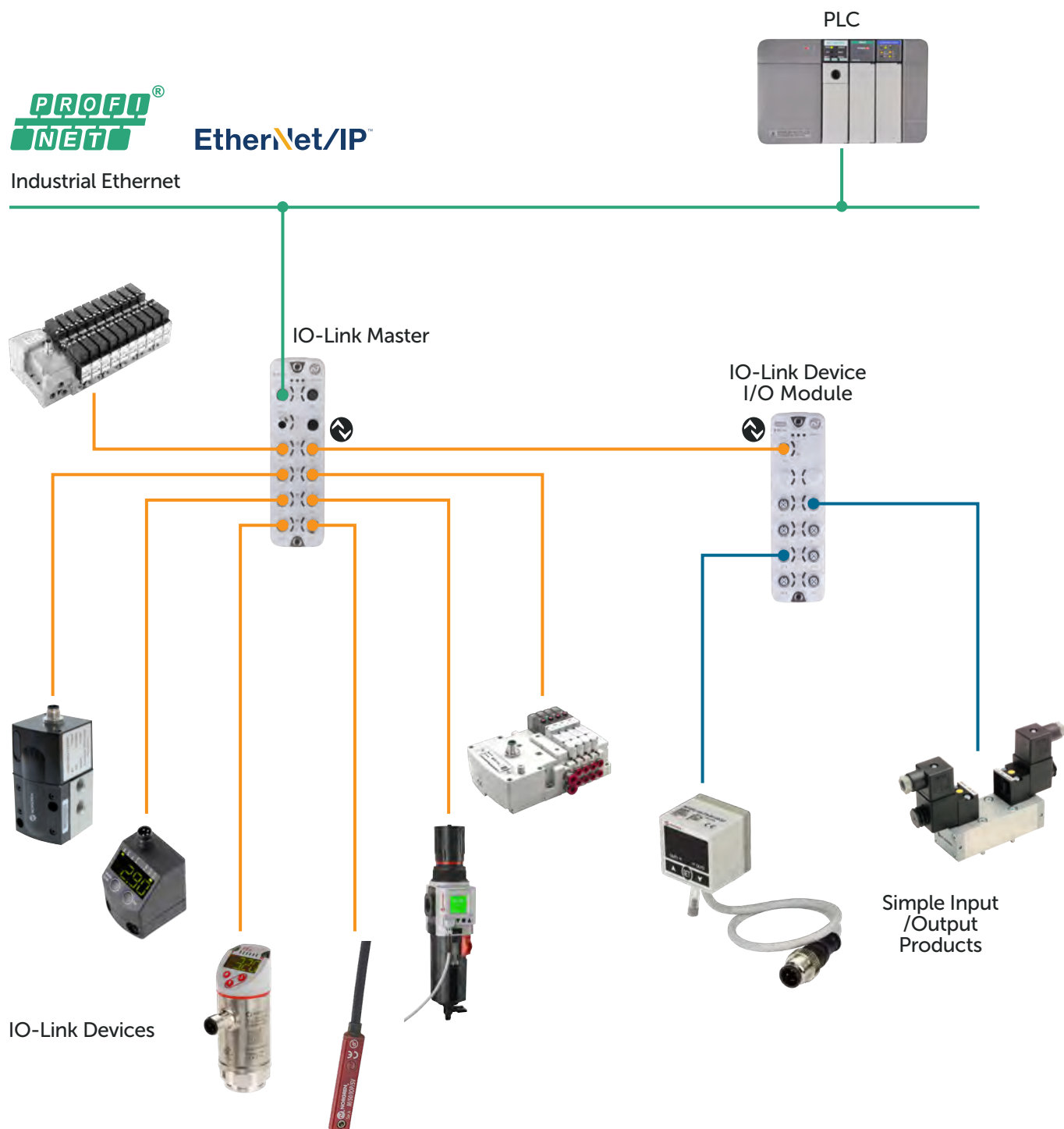
Storage temperature:
 -25...85 °C (-13 ... 185 °F)

Max. relative air humidity:
 90%

Protection:
 IP 65; IP 66; IP 67

Materials:
 Housing: PA, Socket: brass nickel plated

Example System Layout



IO-Link Masters/I/O Modules/Accessories

	Product Description		Technical data page	Drawing page	Model
	PROFINET IO-Link Master	Port Class A (4x) + Port Class B (4x)	6	24	NC-MP-4A4B-12DLA
	EtherNet/IP IO-Link Master	Port Class A (4x) + Port Class B (4x)	6	24	NC-ME-4A4B-12DLA
	I/O Module Standard	8 Port without Auxillary Power 16 x I/O Configurable	8	24	NC-HB-8A5F-12A0A
	I/O Module with Auxillary Power	8 Port with Auxillary Power 16 x I/O Configurable	8	24	NC-HA-8A5F-12AAA
	Y-Splitter 2 x M12 - 1 x M12	2 x I/O into one port on Master or I/O Module	10	25	NC-TS-124F-125M0
	Y-Splitter 2 x M8 - 1 x M12	2 x I/O into one port on Master or I/O Module	10	25	NC-TS-083F-124M0
	Protective Cap M12	Cover for unused ports - required to maintain IP rating of Master or I/O Module	11	25	NC-PC-1200-00000
	Protective Cap M8	Cover for unused ports - required to maintain IP rating of Master or I/O Module	11	25	NC-PC-0800-00000

Software

Product Description			Model
	Norgren IO-Link Configuration Tool	Basic version - free download, full version purchased with a licence key from: www.norgren.com	NC-PS-SOFT-00001

Industrial Ethernet - Cable and Connectors

	Product Description		Compatible product:	Technical data page	Drawing page	Model
	Industrial Ethernet cable 4 Pin D-coded	M12 - M12 x 0.5 metre long	IO-Link Master	12	28	NC-124MS-1244SGA
	Industrial Ethernet cable 4 Pin D-coded	M12 - M12 x 2 metre long		12	28	NC-124MS-1244SG2
	Industrial Ethernet cable 4 Pin D-coded	M12 - M12 x 5 metre long		12	28	NC-124MS-1244SG5
	Industrial Ethernet cable 4 Pin D-coded	M12 - Open End x 2 metre long		12	28	NC-124MS-00000G2
	Industrial Ethernet cable 4 Pin D-coded	M12 - Open End x 5 metre long		12	28	NC-124MS-00000G5
	Industrial Ethernet cable 4-pin D-coded	RJ45 - M12 Open End x 5 metre long		12	28	NC-RJ450-1244SG5
	Industrial Ethernet M12 4 Pin D-coded	Wireable connector		13	28	NC-124MS-WIRE0D0
	Industrial Ethernet RJ45	RJ45 wireable connector		13	28	NC-RJ450-0000000

Power Cables

	Product Description		Compatible product:	Technical data page	Drawing page	Model
	Power Cable 5 Pin L - coded	M12 - M12 x 2 metre long	IO-Link Master	14	27	NC-125FS-125MSL2
	Power Cable 5 Pin L - coded	M12 - M12 x 5 metre long		14	27	NC-125FS-125MSL5
	Power Cable 5 Pin L - coded	M12 - Open End x 2 metre long		14	27	NC-125FS-00000L2
	Power Cable 5 Pin L - coded	M12 - Open End x 5 metre long		14	27	NC-125FS-00000L5
	Power Socket 4 Pin L-coded	M12 - Wireable		15	27	NC-125FS-WIRE0L0
	Power Plug 5 Pin L - coded	M12 - Wireable		15	27	NC-125FM-WIRE0L0
	Cable 5 Pin A-coded	M12 - Open End x 5 metre long	I/O Module with Auxillary Power	15	27	NC-125FS-00000-5

Connector Cables and Plugs

	Product Description		Compatible product:	Technical data page	Drawing page	Model
	Cable 3 Pin A-coded M8 - M8 x 0.6 metre long		Actuator sensors M/50/LSU/CP*, M/50/EAP/CP*	17	29	NC-083FS-083MS-A
	Cable 3 Pin A-coded M8 - M8 x 1 metre long			17	29	NC-083FS-083MS-1
	Cable 3 Pin A-coded M8 - M8 x 2 metre long			17	29	NC-083FS-083MS-2
	Cable 3 Pin A-coded M8 - M8 x 5 metre long			17	29	NC-083FS-083MS-5
	Cable 3 Pin A-coded M8 - Open End x 5 metre long			17	29	NC-083FS-00000-5
	Cable 4 Pin A-coded M8 - M12 x 0.6 metre long		Pressure sensors 54D*	18	29	NC-084FS-124MS-A
	Cable 4 Pin A-coded M8 - M12 x 1 metre long			18	29	NC-084FS-124MS-1
	Cable 4 Pin A-coded M8 - M12 x 2 metre long			18	29	NC-084FS-124MS-2
	Cable 4 Pin A-coded M8 - M12 x 5 metre long			18	29	NC-084FS-124MS-5
	Cable 4 Pin A-coded M8 - Open End x 5 metre long			18	29	NC-084FS-00000-5
	Cable 5 Pin A-coded M12 - M12 x 0.6 metre long		Pressure sensors 34D*	19	29	NC-125FS-125MS-A
	Cable 5 Pin A-coded M12 - M12 x 1 metre long			19	29	NC-125FS-125MS-1
	Cable 5 Pin A-coded M12 - M12 x 2 metre long			19	29	NC-125FS-125MS-2
	Cable 5 Pin A-coded M12 - M12 x 5 metre long			19	29	NC-125FS-125MS-5
	Cable 5 Pin A-coded M12 - Open End x 5 metre long			19	29	NC-125FS-00000-5
	Plug 3 Pin A-coded M8 - Wireable male			20	30	NC-083MS-WIRE0A0
	Plug 4 Pin A-coded M8 - Wireable male			20	30	NC-084MS-WIRE0A0
	Plug 4 Pin A-coded M12 - Wireable male			20	30	NC-124MS-WIRE0A0
	Plug 5 Pin A-coded M12 - Wireable male			20	30	NC-125MS-WIRE0A0

* = part number series

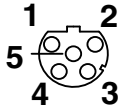
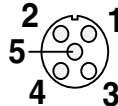
Valve Connectors

	Product Description	Compatible product:	Technical data page	Drawing page	Model
	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12 x 0.6 metre long	Example - Solenoid valve series SXE with 23N, 33N coil	21	31	NC-DINAA-123MS-A
	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12 x 1 metre long		21	31	NC-DINAA-123MS-1
	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12 x 2 metre long		21	31	NC-DINAA-123MS-2
	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12 x 5 metre long		21	31	NC-DINAA-123MS-5
	DIN form A Solenoid Connector with LED - Open End x 1 metre long		21	31	M/P43316/11
	DIN form A Solenoid Connector with LED - Open End x 3 metre long		21	31	M/P43316/13
	DIN form B Solenoid Connector with LED - 3 Pin A-coded M12 x 0.6 metre long	Example - solenoid valve series V60-63 and SXE series with 13L coil	22	31	NC-DINBA-123MS-A
	DIN form B Solenoid Connector with LED - 3 Pin A-coded M12 x 1 metre long		22	31	NC-DINBA-123MS-1
	DIN form B Solenoid Connector with LED - 3 Pin A-coded M12 x 2 metre long		22	31	NC-DINBA-123MS-2
	DIN form B Solenoid Connector with LED - 3 Pin A-coded M12 x 5 metre long		22	31	NC-DINBA-123MS-5
	DIN form B Solenoid Connector with LED - Open End 1 metre long		22	31	NC-DINBA-00000-1
	DIN form B Solenoid Connector with LED - Open End 3 metre long		22	31	NC-DINBA-00000-3
	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12 x 0.6 metre long	Example - solenoid valves series V60-63 and SXE series with 13J coil	23	31	NC-DINIA-123MS-A
	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12 x 1 metre long		23	31	NC-DINIA-123MS-1
	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12 x 2 metre long		23	31	NC-DINIA-123MS-2
	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12 x 5 metre long		23	31	NC-DINIA-123MS-5
	DIN form B Industrial Standard Solenoid Connector with LED - Open End x 1 metre long		23	31	M/P43314/11
	DIN form B Industrial Standard Solenoid Connector with LED - Open End x 3 metre long		23	31	M/P43314/13
	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12 x 0.6 metre long	Example - solenoid valves series V40/V41, V44/V45 with C313A coil	24	32	NC-DINCA-123MS-A
	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12 x 1 metre long		24	32	NC-DINCA-123MS-1
	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12 x 2 metre long		24	32	NC-DINCA-123MS-2
	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12 x 5 metre long		24	32	NC-DINCA-123MS-5
	DIN form C Solenoid Connector with LED - Open End x 1 metre long		24	32	V10014-D01
	DIN form C Solenoid Connector with LED - Open End x 3 metre long		24	32	V10014-D03



IO-Link Masters Technical Data

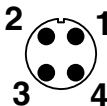
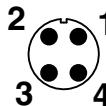
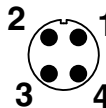
Model	IO-Link Master with PROFINET Interface NC-MP-4A4B-12DLA	IO-Link Master with EtherNet/IP Interface NC-ME-4A4B-12DLA
Application		
Application	I/O modules for field applications	
Daisy-chain function	voltage supply; Ethernet interface	
Electrical data		
Operating voltage (V)	20 ... 30 DC; (US; to SELV/PELV)	
Current consumption (mA)	300 ... 3900; (US)	
Protection class	III	
Additional voltage supply (V)	20 ... 30 DC; (UA)	
Actuator supply UA		
Max. current load total (A)	8	
Current rating per port (A)	2; (adjustable: 0 ... 2; Factory setting: 2)	
Sensor supply US		
Max. current load total (A)	3.6	
Current rating per port (A)	2; (adjustable: 0 ... 2; Factory setting: 0.45)	
Inputs/outputs		
Total number of inputs and outputs	16; (configurable)	
Number of inputs and outputs	Number of digital inputs: 12; Number of digital outputs: 12	
Inputs		
Number of digital inputs	12; (IO-Link Port Class A: 4 x 2; IO-Link Port Class B: 4 x 1)	
Switching level high (V)	11 ... 30	
Switching level low (V)	0 ... 5	
Digital inputs protected against short circuits	yes	
Outputs		
Number of digital outputs	12; (IO-Link Port Class A: 4 x 1; IO-Link Port Class B: 4 x 2)	
Short-circuit proof	yes	
Actuator supply UA		
Max. current load per output (mA)	2000	
Sensor supply US		
Max. current load per output (mA)	2000	
Interfaces		
Communication interface	Ethernet ; IO-Link	
Ethernet		
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10; 100	
Protocol	PROFINET	EtherNet/IP
Factory settings	IP address: 0.0.0.0	IP address: 192.168.1.250
	subnet mask: 0.0.0.0	subnet mask: 255.255.255.0
	gateway IP address: 0.0.0.0	
	MAC address: see type label	
Note on interfaces	CC-C (Conformance Class C); S2-Redundancy; Configuration in Run (CiR); IRT Capability; SNMP	Supported network topologies; line; ring; DLR
IO-Link Master		
Transmission type	COM 1/COM 2/COM 3	
IO-Link revision	1.1	
Number of ports class A	4	
Number of ports class B	4	
Operating conditions		
Ambient temperature (°C)	-25 ... 60	
Storage temperature (°C)	-25 ... +85	
Max. relative air humidity (%)	90	
Protection	IP 65; IP 66; IP 67	
Degree of soiling	2	
	IO-Link Master with PROFINET Interface	IO-Link Master with EtherNet/IP Interface

Model	NC-MP-4A4B-12DLA	NC-ME-4A4B-12DLA
Tests/Approvals		
EMC		EN 61000-6-2 EN 61000-6-4
Shock resistance		DIN EN 60068-2-27
Vibration resistance		DIN EN 60068-2-64 2009-04 DIN EN 60068-2-6 2008-10
MTTF (years)		43
Mechanical data		
Weight (g)		412,1
Materials		housing: PA; socket: brass nickel-plated
Electrical connection - Ethernet		
IN/OUT XF1, XF2		
1		TX +
2		RX +
3		TX -
4		RX -
5		not used
Connector: M12-Coding D		
Electrical connection - Process connection		
IO-Link Port Class B X1 ... X4		
1		Sensor supply (US) L +
2		digital output (UA) L+
3		Sensor supply (US) L-
4		C/Q IO-Link
5		actuator supply (UA) L-
IO-Link Port Class A X5 ... X8		
1		Sensor supply (US) L+
2		digital input (US)
3		Sensor supply (US) L-
4		C/Q IO-Link
5		not used
Connector: M12-Coding A		
Electrical connection - voltage supply IN		
XD1		
1		+ 24 V DC (US) brown
2		GND (UA) white
3		GND (US) blue
4		+ 24 V DC (UA) black
5		FE grey
Connector: M12-Coding L		
Electrical connection - voltage supply OUT		
XD2		
1		+ 24 V DC (US) brown
2		GND (UA) white
3		GND (US) blue
4		+ 24 V DC (UA) black
5		FE grey
Connector: M12-Coding L		



IO-Link I/O Modules Technical Data

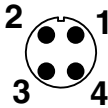
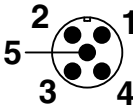
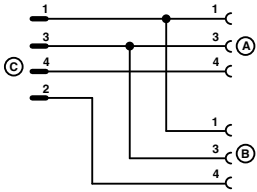
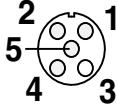
Model	IO-Link I/O Module - with Auxillary Power NC-HA-8A5F-12AAA	IO-Link I/O Module - Standard NC-HB-8A5F-12A0A
Electrical data	AL2225	AL2221
Operating voltage (V)	18 ... 30 DC	
Current consumption (mA)	100; (US)	
Protection class	III	
Additional voltage supply (V)	18 ... 30 DC; (UA; UAi)	
Max. current consumption from additional supply (mA)	4000; (UA; UAi: 400 mA)	
Inputs/outputs		
Number of inputs and outputs	Number of digital inputs: 16 Number of digital outputs: 16	
Inputs		
Number of digital inputs	16; (configurable)	
Input circuit of digital inputs	PNP; (type 3 (IEC 61131-2))	
Sensor supply of the inputs	AUX (UA, UAi)	US
Voltage supply (V)	18 ... 30	
Outputs		
Number of digital outputs	16; (configurable)	
Max. current load per output (mA)	1800	1000
Max. current load outputs total (mA)	3600; (max. current load per segment : 1800 mA)	1000
Short-circuit protection	yes	
Actuator supply switching outputs	AUX (UA)	US
Interfaces		
Communication interface	IO-Link	
SDCI standard	IEC 61131-9	
Transmission type	COM3 (230,4 kBaud)	
IO-Link revision	1.1	
SIO mode	no	
Required master port type	A	
Min. process cycle time (ms)	4	
Supported Device IDs	Type of operation	Device ID
For further information see IO-Link interface description file	Default	1314
Operating conditions		
Ambient temperature (°C)	-25 ... 60	
Storage temperature (°C)	-25 ... 70	
Max. relative air humidity (%)	75	
Max. height above sea level (m)	2000	
Protection	IP 65; IP 67; IP 69K; (operation with stainless steel protective caps: IP69K)	
Degree of soiling	2	
Tests/Approvals		
EMC	EN 61000-6-2 EN 61000-6-3 IEC 61131-9	
Shock resistance	DIN EN 60068-2-27	
Vibration resistance	DIN EN 60068-2-64 DIN EN 60068-2-6	
Mechanical Data		
Weight (g)	408,4	396,1
Dimensions (mm)	26 x 59,3 x 208	
Materials	housing: PA grey; socket: stainless steel (1.4404/316L)	
Displays/Operating Elements		
Display		
operation	1 x LED, green	
fault	1 x LED, red	
function	1 x LED, yellow	
Model	IO-Link I/O Module - with Auxillary Power NC-HA-8A5F-12AAA	IO-Link I/O Module - Standard NC-HB-8A5F-12A0A

Accessories			
Accessories (optional)	protective cap for M12 sockets		
Pack quantity	1 pcs		
Electrical connection - AUX			
X31			
1	+ 24 V DC (UAi)		
2	GND (UA/UAi)		
3	not used		
4	+ 24 V DC (UA)		
Connector: 1 x M12- Coding A			
Electrical connection - IO-Link			
X1			
1	+ 24 V DC (US)		
2	not used		
3	GND (US)		
4	IO-Link		
Connector: 1 x M12- Coding A			
Electrical connection - inputs/outputs			
X1.0 ... X1.7			
1	+ 24 V DC (UA/UAi)		+ 24 V DC (US)
2		I/O2	
3	GND (UA/UAi)		GND (US)
4		I/O1	
5		not used	
Connector: 8 x M12- Coding A			

Accessories



Y-Splitters Technical Data

Model	Y-Splitter 2 x M8 - 1 x M12 NC-TS-083F-124M0	Y-Splitter 2 x M12 - 1 x M12 NC-TS-124F-125M0
Application		
Special feature	Free from silicone; Gold-plated contacts	
Free from silicone	yes	
Electrical data		
Operating voltage (V)	< 50 AC / < 60 DC	< 250 AC / < 300 DC; (cULus: 30 AC/42 DC)
Protection class	III	
Max. current load per module/slot (A)	3	4
Max. current load total (A)	3	4
Operating conditions		
Ambient temperature (°C)	-25 ... +90	
Protection	IP 65; IP 67; IP 68; IP 69K	
Mechanical data		
Weight (g)	30	36
Materials	housing: PA grey; Sealing: FKM	
Material nut	brass, nickel-plated/brass, nickel-plated	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Electrical Connection - Plug	Connector: 1 x M12; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.6 ... 1.5 Nm	
		
Connection		
Electrical Connection - Socket	Connector: 2 x M8; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.3 ... 0.5 Nm	
		

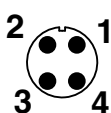
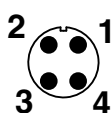
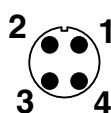
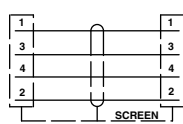
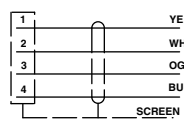
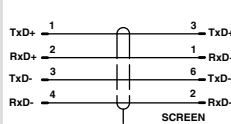
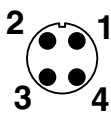


Protective Caps Technical Data

Model	Protective Cap M8 NC-PC-0800-00000	Protective Cap M12 NC-PC-1200-00000
Mechanical Data		
Weight (g)	4	11
Dimensions (mm)	M8	M12
Thread designation	M8	M12
Material	PA black	
Tightening torque (Nm)	0.5	0.8
Remarks		
Pack quantity	10 pcs	



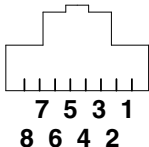
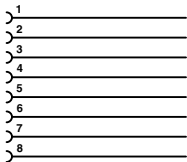
Industrial Ethernet - Cable and Connectors

Industrial Ethernet cable 4 Pin D-coded M12 - M12				Industrial Ethernet cable 4 Pin D-coded M12 - Open End		Industrial Ethernet cable 4-pin D-coded RJ45 – M12
Model	NC-124MS-1244SGA	NC-124MS-1244SG2	NC-124MS-1244SG5	NC-124MS-00000G2	NC-124MS-00000G5	NC-RJ450-1244SG5
Application						
System	Gold-plated contacts; screened cable			Gold-plated contacts		Gold-plated contacts; screened cable
Design	Ethernet cable, D-coded			Ethernet cable, D-coded		Ethernet cable, D-coded
Electrical Data						
Operating Voltage (V)	< 50 AC/< 60 DC			< 250 AC/DC		–
Protection Class	III					–
Max. current load total (A)	4			4		–
Operating Conditions						
Ambient temperature °C	-20 ... +90			-40 ... +70		-25 ... +70
Protection	IP67			IP67		IP 67; IP 42; (M12 plug / RJ45 plug)
Mechanical Data						
Weight (g)	66	164	369	152	349	323
Dimensions (mm)	15 x 15 x 47.3			15 x 15 x 47.3		15 x 15 x 47.3
Length (M)	0.5	2	5	2	5	5
Material	TPU (urethane)			TPU (urethane)		PUR / PC
Material (nut)	diecast zinc, nickel-plated/diecast zinc, nickel-plated			Diecast Zinc, Nickel-Plated		diecast zinc, nickel-plated
Electrical Connection						
	Cable: PVC, green, screened; 4 x 0.34 mm ²			Cable: PVC, green, Ø 6.5 mm; 4 x 0.34 mm ²		Cable: 5 m, PUR, green, Ø 6.2 mm; 2 x 0.38 mm ²
Electrical Connection - Plug	Connector: 1 x M12, straight; Moulded body: TPU (urethane); Locking: diecast zinc, nickel-plated; Contacts: gold-plated; Shielded connection cable: shield connected			Connector: 1 x M12, straight; Moulded body: TPU (urethane); Locking: diecast zinc, nickel-plated; Contacts: gold-plated; Shielded connection cable: shield connected		Connector: 1 x M12, straight; coding: D; Moulded body: PUR; Locking: diecast zinc, nickel-plated; Tightening torque: 0.7...0.9 Nm
						
				Core Colours: YE = yellow WH = white OG = orange BU = blue 		
Electrical Connection - Plug	Connector: 1 x M12, straight; Moulded body: TPU (urethane); Locking: diecast zinc, nickel-plated; Contacts: gold-plated; Shielded connection cable: shield connected					Connector: 1 x RJ45, straight; Moulded body: PC
				Colour code Pin M12 Pin RJ45 Connector YE 1 1 WH 2 3 OG 3 2 BU 4 6		



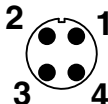
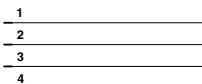
Industrial Ethernet Connectors Technical Data

RJ45 Wireable Bus connector

Model	NC-RJ450-0000000	
Operating Conditions		
Ambient temperature °C	-10 ... +60	
Protection	IP20	
Mechanical Data		
Weight (g)	10	
Electrical Connection		
Electrical Connection	screw terminals: 0.34 mm ² ; Cable sheath: Ø 4.5 ... 8 mm; AWG 22 Electrical connection	
Electrical Connection - Socket	Connector: 1 x RJ45, straight	
		
Connection		

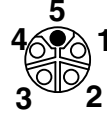
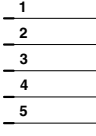
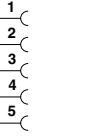
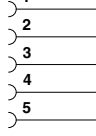
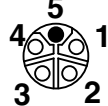


4 Pin D-coded Wireable Connector

Model	NC-124MS-WIREODO	
Application		
Special feature	Free from silicone; Gold plated contacts	
Design	Ethernet cable, D-coded	
Free from silicone	yes	
Electrical data		
Operating voltage (V)	< 45 AC/< 70 DC	
Max. current load total (A)	4; (... 40 °C)	
Operating Conditions		
Ambient temperature (°C)	-25 ... +85	
Protection	IP67	
Mechanical Data		
Weight (g)	45	
Dimensions (mm)	20.2 x 20.2 x 63	
Materials	diecast zinc nickel-plated	
Moulded-body material		
Material nut		
Remarks		
Pack quantity	1 pcs	
Electrical Connection		
Electrical Connection	screw terminals: ... 0.75 mm ² ; Cable sheath: Ø 6 ... 8 mm; AWG 18	
Electrical Connection - plug	Connector: 1 x M12, straight; Moulded body: diecast zinc, nickel-plated; Locking: diecast zinc, nickel-plated; Contacts: gold-plated; Shielded connection cable: shieldable	
		
Connection		



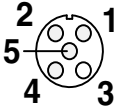
Power Cable and Wireable Connectors Technical Data

5 Pin L - coded M12 - M12			5 Pin L - coded M12 - Open End	
Model	NC-125FS-125MSL2	NC-125FS-125MSL5	NC-125FS-00000L2	NC-125FS-00000L5
Application				
System	Gold-plated contacts			
Design	Power cable, L-coded			
Electrical Data				
Operating Voltage (V)	64 DC		63 DC	
Max. current load total (A)	16		16	
Operating Conditions				
Ambient temperature °C	-40 ... +90			
Protection	IP67			
Mechanical Data				
Weight (g)	470	120	152	349
Length (M)	2	5	2	5
Material	PP		PP, TPE	
Material (nut)	brass, nickel-plated/brass, nickel-plated		diecast zinc, nickel-plated	
Electrical Connection				
	Cable: PUR, black, Ø 11.3 mm; 5 x 2.5 mm ²			
Electrical Connection 1 - Plug/Socket	Connector: 1 x M12, straight; Moulded body: TPE; Locking: brass, nickel-plated; Contacts: gold-plated			
Connection	 			
Electrical Connection 2		 Core Colours: BN = brown WH = white BU = blue BK = black GY = grey  1 BN 2 WH 3 BU 4 BK 5 GY		
Electrical Connection - Socket	Connector: 1 x M12, straight; Moulded body: TPE; Locking: brass, nickel-plated; Contacts: gold-plated			
				



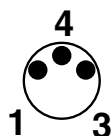
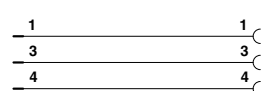
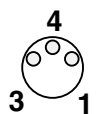
Power Plug Socket 5 Pin L - coded M12 - Wireable																	
Model	NC-125FS-WIRE0LO	NC-125FM-WIRE0LO															
Application																	
System	Gold-plated contacts																
Design	L-coded																
Electrical Data																	
Operating Voltage (V)	< 63 DC																
Operating Conditions																	
Ambient temperature °C	-40 ... +85																
Protection	IP67																
Mechanical Data																	
Weight (g)	53	54															
Dimensions (mm)	DIA = 25 L = 70	DIA = 25 L = 76															
Material	PA																
Material (nut)	diecast zinc , nickel-plated																
Length (mm)	76																
Electrical Connection																	
Electrical Connection	screw terminals: 1.5 ... 2.5 mm ² ; Cable sheath: Ø 8 ... 13 mm	screw terminals: 1.5 ... 2.5 mm ² ; Cable sheath: Ø 8 ... 13 mm															
Electrical Connection	Socket Connector: 1 x M12, straight; Moulded body: PA; Locking: diecast zinc , nickel-plated; Contacts: gold-plated	Connector: 1 x M12, straight; Moulded body: PA; Locking: diecast zinc , nickel-plated; Contacts: gold-plated															
Wireable connector/plug																	
Connection	Core Colours: BN = brown WH = white BU = blue BK = black GY = grey <table><tr><td>1</td><td>BN</td><td>1</td></tr><tr><td>2</td><td>WH</td><td>2</td></tr><tr><td>3</td><td>BU</td><td>3</td></tr><tr><td>4</td><td>BK</td><td>4</td></tr><tr><td>5</td><td>GY</td><td>5</td></tr></table>		1	BN	1	2	WH	2	3	BU	3	4	BK	4	5	GY	5
1	BN	1															
2	WH	2															
3	BU	3															
4	BK	4															
5	GY	5															



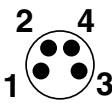
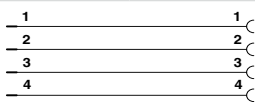
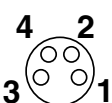
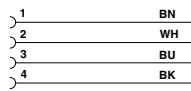
Power cable for I/O Module with Auxiliary Power 5 Pin A-coded M12 - Open End NC-125FS-00000-5											
Model	NC-125FS-00000-5										
Application											
System	Gold-plated contacts										
Design	Power cable, A-coded										
Electrical Data											
Operating Voltage (V)	< 60 AC/DC										
Max. current load total (A)	4; (cULus: 3)										
Operating Conditions											
Ambient temperature °C	-25 ... +90										
Protection	IP67										
Mechanical Data											
Weight (g)	193										
Length (M)	5										
Material	housing: TPU orange; Sealing: FKM										
Material (nut)	brass, nickel-plated/brass, nickel-plated										
Electrical Connection											
Cable	Cable: 5 m, PUR, Halogen-free, black, Ø 4.6 mm; 5 x 0.34 mm² (42 x Ø 0.1 mm)										
Electrical Connection - Socket	Connector: 1 x M12, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.6. 1.5 Nm										
											
Connection	Core colours : BN = brown WH = white BU = blue BK = black GY = grey <table><tr><td>1</td><td>BN</td></tr><tr><td>2</td><td>WH</td></tr><tr><td>3</td><td>BU</td></tr><tr><td>4</td><td>BK</td></tr><tr><td>5</td><td>GY</td></tr></table>	1	BN	2	WH	3	BU	4	BK	5	GY
1	BN										
2	WH										
3	BU										
4	BK										
5	GY										



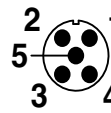
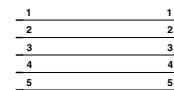
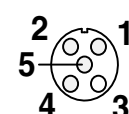
Connector Cables and Plugs Technical Data

Cable 3 Pin A-coded M8 - M8					Cable 3 Pin A-coded M8 - Open End
Model	NC-083FS-083MS-A	NC-083FS-083MS-1	NC-083FS-083MS-2	NC-083FS-083MS-5	NC-083FS-00000-3
Application					
System	Free from silicone; Halogen-free; gold-plated contacts; Drag chain suitability				
Free from silicon	Yes				
Electrical Data					
Operating Voltage (V)	< 50 AC/< 60 DC				
Protection Class	III				
Max. current load total (A)	3				
Operating Conditions					
Ambient temperature °C	-25 ... +90				
Note on ambient temperature	cULus: ...80				
Ambient temperature (moving)	-25 ... +90				
Note on ambient temperature (moving)	cULus: ...80				
Protection	IP 65; IP 67; IP 68; IP 69K				
Mechanical Data					
Weight (g)	32	41	58	113	105
Length (M)	0.6	1	2	5	3
Material	housing: TPU (urethane) Orange; sealing: FKM				
Material (nut)	brass, nickel-plated/brass, nickel-plated				brass, nickel-plated
Drag chain suitability	Yes				
Bending radius for flexible applications	min. 10 x cable diameter				
Travel speed	max. 3.3 m/s for a horizontal travel length of 5m & max. acceleration of 5 m/s^2				
Bending cycles	> 5 Mio.				
Torsional strain	+/- 180 deg/m				
Electrical Connection					
Electrical Connection - Plug	Connector: 1 x M8, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.3 ... 0.5 Nm				
					
Electrical Connection - Cable	Cable: PUR, Halogen-free, black, Ø 3.7 mm; 3 x 0.25 mm² (32 x Ø 0.1 mm)				
					
Electrical Connection - Socket	Connector: 1 x M8, straight; Moulded body: TPU, orange; Locking: brass, nickel-plated; Sealing: FKM; Contacts: gold-plated;				
Connection					1 3 4 BN BU BK Core colours : BN = brown BU = blue BK = black



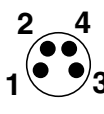
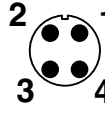
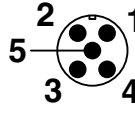
Cable 4 Pin A-coded M8 -M12					Cable 4 Pin A-coded M8 - Open End
Model	NC-084FS-124MS-A	NC-084FS-124MS-1	NC-084FS-124MS-2	NC-084FS-124MS-5	NC-084FS-00000-5
Application					
System	Free from silicone; Halogen-free; gold-plated contacts; Drag chain suitability				
Free from silicon	Yes				
Electrical Data					
Operating Voltage (V)	< 50 AC/< 60 DC				
Protection Class	III				
Max. current load total (A)	3				
Operating Conditions					
Ambient temperature °C	-25 ... +90				
Note on ambient temperature	cULus: ... 75				cULus: ...80
Ambient temperature (moving)	-25 ... +90				
Note on ambient temperature (moving)	cULus: ... 75				cULus: ...80
Protection	IP 65; IP 67; IP 68; IP 69K				
Mechanical Data					
Weight (g)	46	59	90	156	117
Length (M)	0.6	1	2	5	5
Material	Housing: TPU (urethane) orange; Sealing: FKM				
Material (nut)	brass, nickel-plated/brass, nickel-plated				brass, nickel-plated
Drag chain suitability	Yes				
Bending radius for flexible applications	min. 10 x cable diameter				
Travel speed	max. 3.3 m/s for a horizontal travel length of 5m & max. acceleration of 5 m/s^2				
Bending cycles	> 5 Mio.				
Torsional strain	+/- 180 deg/m				
Electrical Connection					
Electrical Connection - Plug	Connector: 1 x M12, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.6 ... 1.5 Nm. Connection cable: shield connected				
					
Electrical Connection - Cable	Cable: PUR, Halogen-free, black, Ø 4.3 mm; 4 x 0.34 mm² (42 x Ø 0.1 mm)				Cable: 5 m, PUR, Halogen-free, black, Ø 3.7 mm; 4 x 0.25 mm² (32 x Ø 0.1 mm)
Connection					
Electrical Connection - Socket	Connector: 1 x M8, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.3 ... 0.5 Nm				
Connection					 BN = brown WH = white BU = blue BK = black

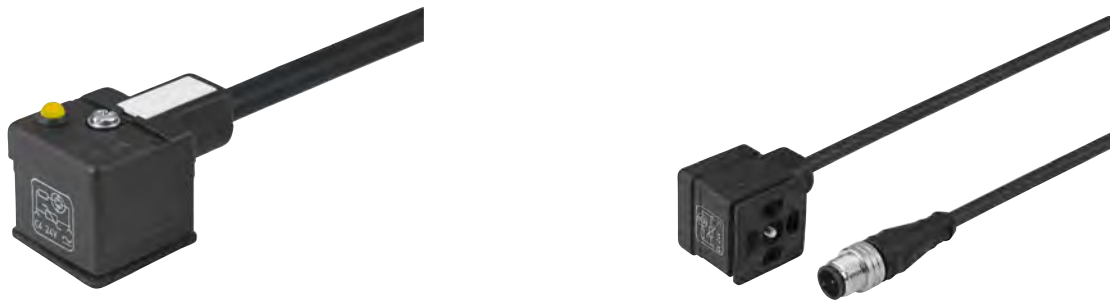


Cable 5 Pin A-coded M12 -M12					Cable 5 Pin A-coded M12 - Open End										
Model	NC-125FS-125MS-A	NC-125FS-125MS-1	NC-125FS-125MS-2	NC-125FS-125MS-5	NC-125FS-00000-5										
Application															
System	Free from silicone; gold-plated contacts; Drag chain suitability														
Free from silicon	Yes														
Electrical Data															
Operating Voltage (V)	< 60 AC/DC														
Protection Class	II														
Max. current load total (A)	4; (cULus: 3)														
Operating Conditions															
Ambient temperature (C)	-25 ... +90														
Note on ambient temperature	cULus: ...75														
Ambient temperature (moving) (C)	-25 ... +90														
Note on ambient temperature (moving)	cULus: ...75														
Storage temperature (C)	-25 ... +55														
Storage humidity (%)	10 ... 100														
Other climatic conditions for storage according to stated class	1K22/ DIN 60721-3-1														
Protection	IP 65; IP 67; IP 68; IP 69K														
Mechanical Data															
Weight (g)	56	68	104	206	193										
Length (M)	0.6	1	2	5	5										
Material	housing: TPU (urethane) orange; sealing: FKM														
Material (nut)	brass, nickel-plated/brass, nickel-plated														
Drag chain suitability	Yes														
Bending radius for flexible applications	min. 10 x cable diameter														
Travel speed	max. 3.3 m/s for a horizontal travel length of 5m & max. acceleration of 5 m/s^2														
Bending cycles	> 5 Mio.														
Torsional strain	+/- 180 deg/m														
Electrical Connection - Plug	Connector: 1 x M12, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.6 ... 1.5 Nm														
															
Electrical Connection	Cable: PUR, black, Ø 4.6 mm; 5 x 0.34 mm² (42 x Ø 0.1 mm)														
															
Electrical Connection - Socket	Connector: 1 x M12, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.6 ... 1.5 Nm														
					<table><tr><td>1</td><td>BN</td></tr><tr><td>2</td><td>WH</td></tr><tr><td>3</td><td>BU</td></tr><tr><td>4</td><td>BK</td></tr><tr><td>5</td><td>GY</td></tr></table>	1	BN	2	WH	3	BU	4	BK	5	GY
1	BN														
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3	BU														
4	BK														
5	GY														
					BN = brown WH = white BU = blue BK = black GY = grey										



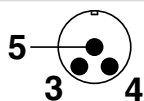
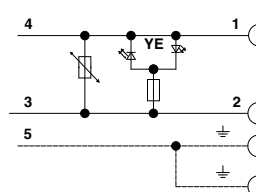
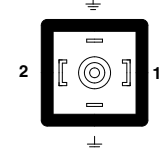
Connector Cables Technical Data

Model	NC-083MS-WIRE0A0		NC-084MS-WIRE0A0		NC-124MS-WIRE0A0		NC-125MS-WIRE0A0																																										
Application																																																	
System	gold-plated contacts				Free from silicone; gold-plated contacts																																												
Free from Silicon					Yes																																												
Electrical Data																																																	
Operating Voltage (V)	< 60 DC				< 250 AC/< 300 DC																																												
Protection Class					II																																												
Max. current load total (A)					4; (... 40 °C)																																												
Operating Conditions																																																	
Ambient temperature (C)	-25 ... +85				-25 ... +90																																												
Storage temperature (.C)					-25 ... +55																																												
Storage humidity (%)					10 ... 100																																												
Other climatic conditions for storage according to stated class					1K22/ DIN 60721-3-1																																												
Protection	IP67				IP 65; IP 67; IP 68; IP 69K																																												
Mechanical Data																																																	
Weight (g)	11		12		32		31																																										
Dimensions (mm)	12 x 12 x 50																																																
Material	PA				Moulded body: PA 6.6 orange; sealing: FKM green																																												
Material (nut)	brass, nickel-plated				nickel-plated brass																																												
Mechanical Data																																																	
Electrical Connection	screw terminals: 0.14 ... 0.5 mm ² ; Cable sheath: Ø 3.5 ... 5 mm				screw terminals: 0.25 ... 1 mm ² ; Cable sheath: Ø 3.5 ... 6 mm; AWG 23 ... 17																																												
Electrical Connection - Plug	Connector: 1 x M8, straight; Moulded body: PA; Locking: brass, nickel-plated; Contacts: gold-plated				Connector: 1 x M12, straight; Moulded body: PA 6.6, orange; Locking: nickel-plated brass; sealing: FKM; Contacts: gold-plated; Tightening torque: 0.6 ... 1.2 Nm; Take into account the maximum value of the counterpart!																																												
Wireable connector/plug																																																	
Connection	<table><tr><td>1</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr></table>		1		3		4		<table><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr></table>		1		2		3		4		<table><tr><td>1</td><td>BN</td><td>1</td></tr><tr><td>2</td><td>WH</td><td>2</td></tr><tr><td>3</td><td>BU</td><td>3</td></tr><tr><td>4</td><td>BK</td><td>4</td></tr></table>		1	BN	1	2	WH	2	3	BU	3	4	BK	4	<table><tr><td>1</td><td>BN</td><td>1</td></tr><tr><td>2</td><td>WH</td><td>2</td></tr><tr><td>3</td><td>BU</td><td>3</td></tr><tr><td>4</td><td>BK</td><td>4</td></tr><tr><td>5</td><td>GY</td><td>5</td></tr></table> Core colors BN = brown WH = white BU = blue BK = black GY = grey		1	BN	1	2	WH	2	3	BU	3	4	BK	4	5	GY	5
1																																																	
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2	WH	2																																															
3	BU	3																																															
4	BK	4																																															
1	BN	1																																															
2	WH	2																																															
3	BU	3																																															
4	BK	4																																															
5	GY	5																																															



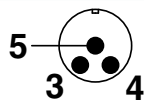
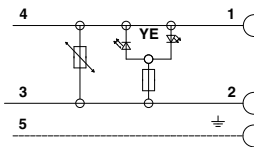
Valve Connectors Technical Data

DIN Form A conforming to DIN EN 175 301-803-A ISO 4400 (DIN 43650)

Model	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12				Open End	
	NC-DINAA-123MS-A	NC-DINAA-123MS-1	NC-DINAA-123MS-2	NC-DINAA-123MS-5	M/P43316/11	M/P43316/13
Application						
System	Free from silicone; Halogen-free; gold-plated contacts					
Free from silicon	Yes					
Electrical Data						
Operating Voltage (V)	< 24 AC/DC				24 AC/DC	
Overvoltage Protection	yes; (VDR)				yes; (VDR)	
Max. current load total (A)	3					
Operating Conditions						
Ambient temperature (C)	-25 ... +80					
Protection	IP67				IP65	
Mechanical Data						
Weight (g)	77	94	138	272	99	220
Length (M)	0.6	1	2	5	1	3
Material	PUR					
Material (nut)	brass, nickel-plated/brass, nickel-plated					
Displays/Operating Elements						
Display	Switching status 1 x LED, yellow				1 x LED, red	
Accessories						
Accessories (supplied)	Screw panel for labelling				Screw	
Electrical Connection						
Electrical Connection - Plug	Connector: 1 x M12, straight; Moulded body: PUR; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.7 ... 0.9Nm					
						
Electrical Connection - Cable	Cable: PUR, Halogen-free, black, Ø 5 mm; 3 x 0.5 mm ² (42 x Ø 0.1 mm)				3 x 0.5 mm ²	
						
Electrical Connection - Socket	Connector: 1 x valve type A DIN, angled; Moulded body: PUR; Locking: brass, nickel-plated; Contacts: nickel-plated brass; Tightening torque: 0.7 ... 0.9 Nm					
						

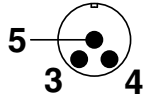
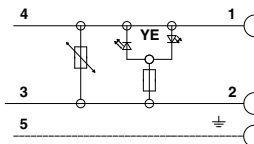


Valve Connectors - DIN form B conforming to DIN EN 175 301-803-B ISO 6952 (DIN 43650)

Model	DIN form B Solenoid Connector with LED - 3 Pin A-coded M12				Open End	
	NC-DINBA-123MS-A	NC-DINBA-123MS-1	NC-DINBA-123MS-2	NC-DINBA-123MS-5	NC-DINBA-00000-1	NC-DINBA-00000-3
Application						
System	Free from silicone; Halogen-free; gold-plated contacts					
Free from silicon	Yes					
Electrical Data						
Operating Voltage (V)	< 24 AC/DC					
Overvoltage Protection	yes; (VDR)					
Max. current load total (A)	3					
Operating Conditions						
Ambient temperature (C)	-25 ... +80					
Protection	IP67					
Mechanical Data						
Weight (g)	74	93	134	268	84	250
Length (M)	0.6	1	2	5	1	3
Material	PUR					
Material (nut)	brass, nickel-plated/brass, nickel-plated					
Displays/Operating Elements						
Display	Power 1 x LED, yellow					
Accessories						
Accessories (supplied)	Screw panel for labelling					
Electrical Connection - Plug						
Electrical Connection - Plug	Connector: 1 x M12, straight; Moulded body: PUR; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.7 ... 0.9 Nm					
						
Electrical Connection	Cable: PUR, Halogen-free, black, Ø 5 mm; 3 x 0.5 mm² (42 x Ø 0.1 mm)					
						
Electrical Connection - Socket	Connector: 1 x valve type B DIN, angled; Moulded body: PUR; Locking: brass, nickel-plated; Contacts: nickel-plated brass; Tightening torque: 0.7 ... 0.9 Nm					
						

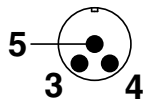
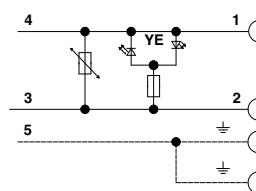
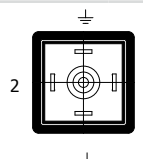


Valve Connectors - DIN Form B Industrial Standard

Model	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12				Open End	
	NC-DINIA-123MS-A	NC-DINIA-123MS-1	NC-DINIA-123MS-2	NC-DINBA-123MS-5	M/P43314/11	M/P43314/13
Application						
System	Free from silicone; Halogen-free; gold-plated contacts					
Free from silicon	Yes					
Electrical Data						
Operating Voltage (V)	< 24 AC/DC				24 AC/DC	
Overvoltage Protection	yes; (VDR)				yes; (VDR)	
Max. current load total (A)	3					
Operating Conditions						
Ambient temperature (C)	-25 ... +80					
Protection	IP67				IP65	
Mechanical Data						
Weight (g)	77	95	135	267	80	230
Length (M)	0.6	1	2	5	1	3
Material	PUR					
Material (nut)	brass, nickel-plated/brass, nickel-plated					
Displays/Operating Elements						
Display	Switching Status 1 x LED, yellow				1 x LED, red	
Accessories						
Accessories (supplied)	Screw				Screw	
Electrical Connection						
Electrical Connection - Plug	Connector: 1 x M12, straight; Moulded body: PUR; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.7 ... 0.9 Nm					
						
Electrical Connection	Cable: PUR, Halogen-free, black, Ø 5 mm; 3 x 0.5 mm ² (42 x Ø 0.1 mm)				3 x 0.5 mm ²	
						
Electrical Connection - Socket	Connector: 1 x valve type B industrial standard, angled; Moulded body: PUR; Locking: brass, nickel-plated; Contacts: nickel-plated brass; Tightening torque: 0.7 ... 0.9 Nm					
						



Valve Connectors - DIN form C conforming to DIN EN 175 301-803-C ISO 15217 (DIN 43650)

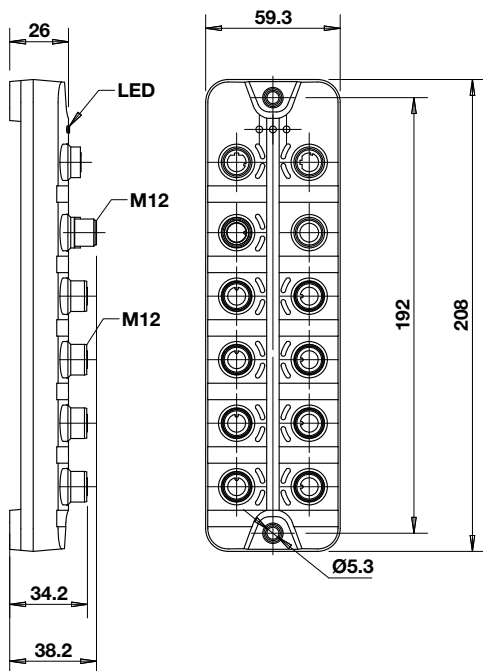
Model	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12				Open End	
	NC-DINCA-123MS-A	NC-DINCA-123MS-1	NC-DINCA-123MS-2	NC-DINCA-123MS-5	V10014-D01	V10014-D03
Application						
System	Free from silicone; Halogen-free; gold-plated contacts					
Free from silicon	Yes					
Electrical Data						
Operating Voltage (V)	< 24 AC/DC				24 AC/DC	
Overvoltage Protection	yes; (VDR)				yes; (VDR)	
Max. current load total (A)	3					
Operating Conditions						
Ambient temperature (C)	-25 ... +80					
Protection	IP65				IP65	
Mechanical Data						
Weight (g)	59	78	125	s	60	127
Length (M)	0.6	1	2	5	1	3
Material	PUR					
Material (nut)	brass, nickel-plated/brass, nickel-plated					
Displays/Operating Elements						
Display	Switching Status 1 x LED, yellow				1 x LED, red	
Accessories						
Accessories (supplied)	Screw				Screw	
Electrical Connection						
Electrical Connection - Plug	Connector: 1 x M12, straight; Moulded body: PUR; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.7 ... 0.9 Nm					
						
Electrical Connection	Cable: PUR, Halogen-free, black, Ø 5 mm; 3 x 0.5 mm ² (42 x Ø 0.1 mm)				3 x 0.5 mm ²	
						
Electrical Connection - Socket	Connector: 1 x valve type C DIN, angled; Moulded body: PUR; Locking: brass, nickel-plated; Contacts: nickel-plated brass; Tightening torque: 0.7 ... 0.9 Nm					
						

Dimensions

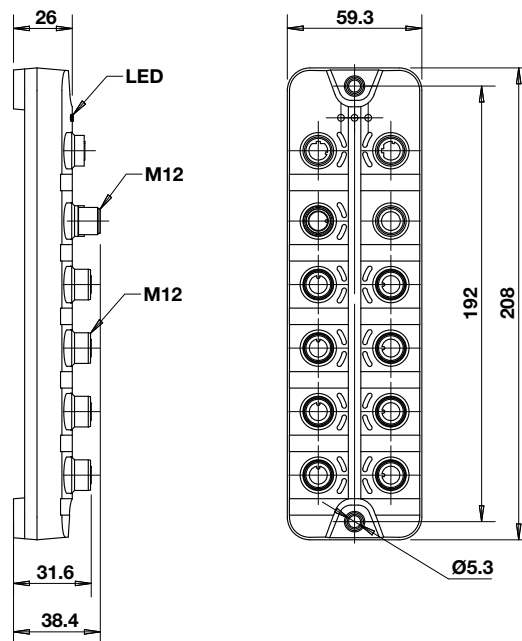
Dimensions in mm
Projection/First angle



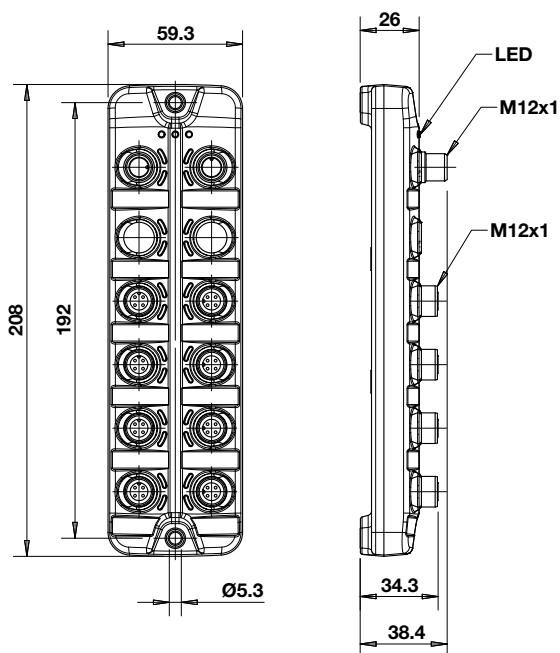
**IO-Link Master with
PROFINET Interface
NC-MP-4A4B-12DLA**



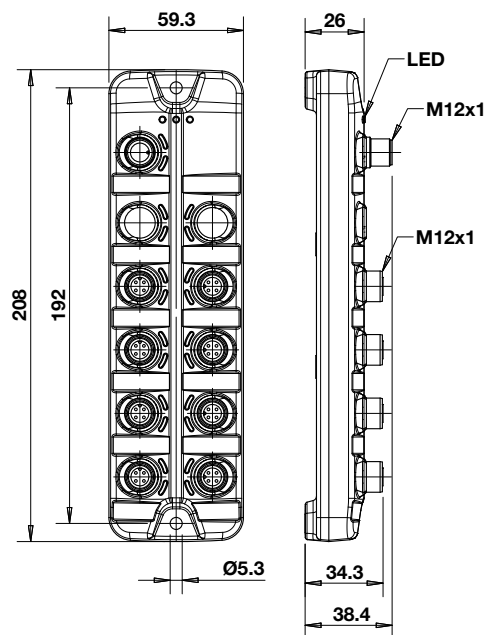
**IO-Link Master with
EtherNet/IP Interface
NC-ME-4A4B-12DLA**



**IO-Link I/O Module - with Auxillary Power
NC-HA-8A5F-12AAA**



**IO-Link I/O Module - Standard
NC-HB-8A5F-12A0A**

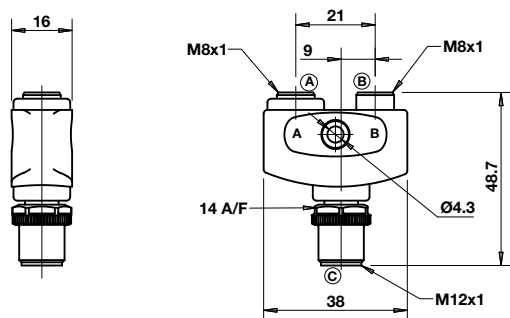


Dimensions

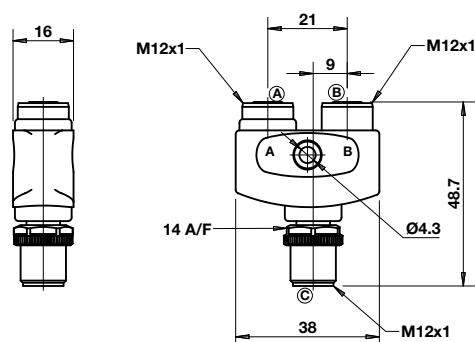
Y-Splitters

NC-TS-083F-124M0

Dimensions in mm
Projection/First angle

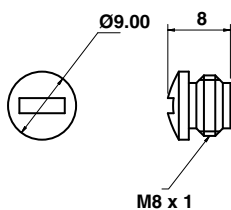


NC-TS-124F-125M0

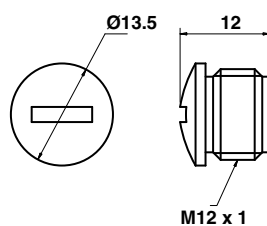


Protective caps

NC-PC-0800-00000



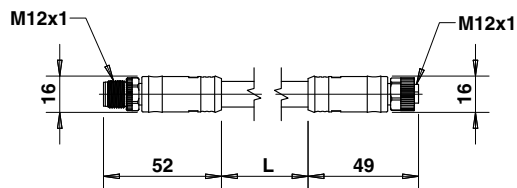
NC-PC-1200-00000



Dimensions

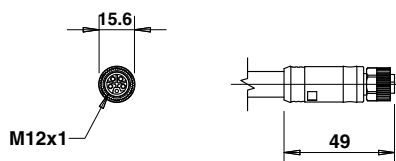
Power Cable 5 Pin L - coded M12 - M12

Dimensions in mm
Projection/First angle



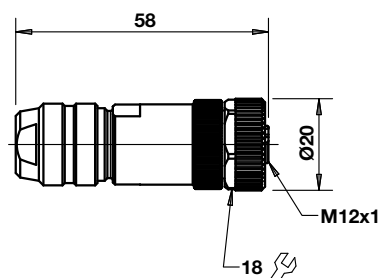
Product Description	Cable length (m) L	Model
Power Cable 5 Pin L - coded M12 - M12	2.0	NC-125FS-125MSL2
	5.0	NC-125FS-125MSL5
Power Cable 5 Pin L - coded M12 - Open End	2.0	NC-125FS-00000L2
	5.0	NC-125FS-00000L5

M12 - Open End

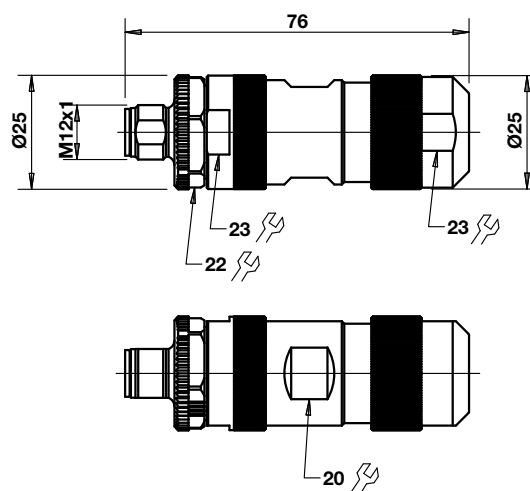


Power Socket 5 Pin L - coded

M12 - Wireable NC-125FS-WIRE0L0

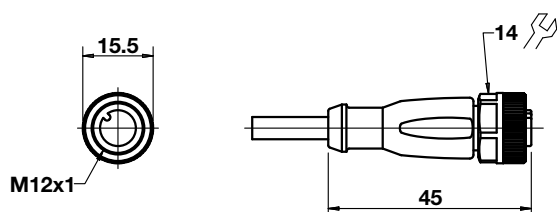


M12 - Wireable NC-125FM-WIRE0L0



Cable 5 Pin A-coded

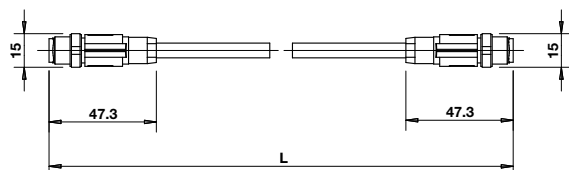
M12 - Open End x 5 metre long NC-125FS-00000-5



Dimensions

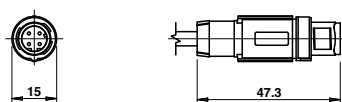
Industrial Ethernet cable 4 Pin D-coded

Dimensions in mm
Projection/First angle

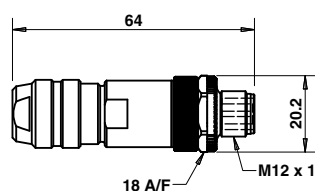


Product Description	Cable length (m) L	Model
Industrial Ethernet cable 4 Pin D-coded M12 - M12	0.5	NC-124MS-1244SGA
	2.0	NC-124MS-1244SG2
	5.0	NC-124MS-1244SG5
Industrial Ethernet cable 4 Pin D-coded M12 - Open End	2.0	NC-124MS-00000G2
	5.0	NC-124MS-00000G5
Industrial Ethernet cable 4-pin D-coded RJ45 – M12	5.0	NC-RJ450-1244SG5

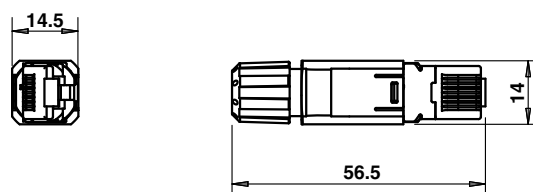
M12 - Open End



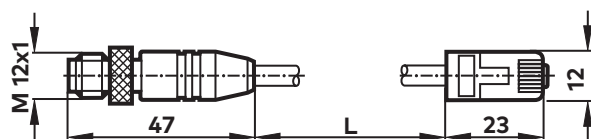
Industrial Ethernet M12 4 Pin D-coded NC-124MS-WIRE0D0



Industrial Ethernet RJ45 RJ45 wireable connector NC-RJ450-0000000



Industrial Ethernet cable RJ45 – M12 4-pin D-coded NC-RJ450-1244SG5

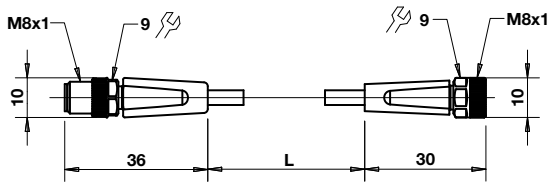


Dimensions Connector Cables and Plugs

Dimensions in mm
Projection/First angle

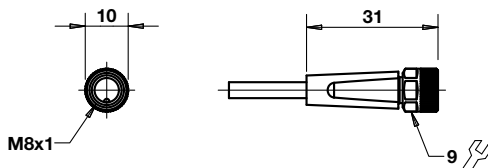


Cable 3 Pin A-coded

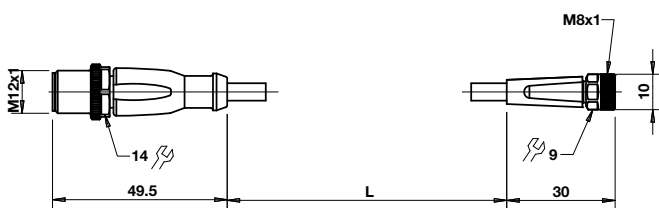


Product Description	Cable length (m) L	Model
Cable 3 Pin A-coded M8 - M8	0.6	NC-083FS-083MS-A
	1.0	NC-083FS-083MS-1
	2.0	NC-083FS-083MS-2
	5.0	NC-083FS-083MS-5
Cable 3 Pin A-coded M8 - Open End	5.0	NC-083FS-00000-5

M8 - Open End

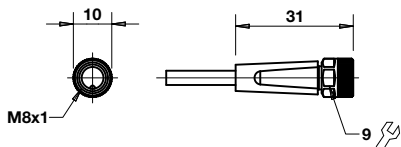


Cable 4 Pin A-coded

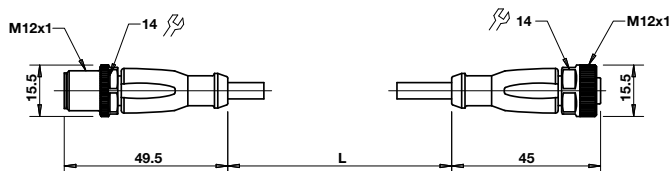


Product Description	Cable length (m) L	Model
Cable 4 Pin A-coded M8 - M12	0.6	NC-084FS-124MS-A
	1.0	NC-084FS-124MS-1
	2.0	NC-084FS-124MS-2
	5.0	NC-084FS-124MS-5
Cable 4 Pin A-coded M8 - Open End	5.0	NC-084FS-00000-5

M8 - Open End

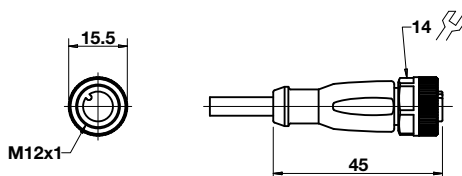


Cable 5 Pin A-coded



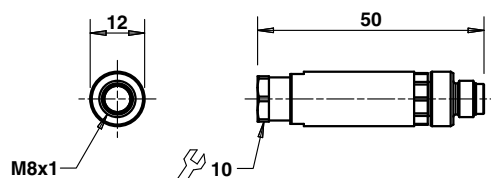
Product Description	Cable length (m) L	Model
Cable 5 Pin A-coded M12 - M12	0.6	NC-125FS-125MS-A
	1.0	NC-125FS-125MS-1
	2.0	NC-125FS-125MS-2
	5.0	NC-125FS-125MS-5
Cable 5 Pin A-coded M12 - Open End	5.0	NC-125FS-00000-5

M12 - Open End

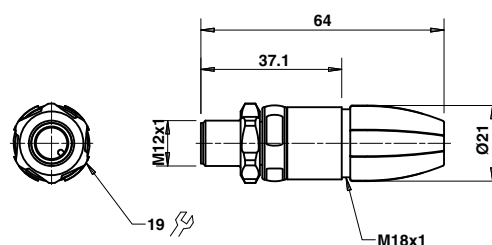


Dimensions Connector Cables and Plugs

Plug 4 Pin A-coded M8 - Wireable
NC-084MS-WIRE0A0



Plug 5 Pin A-coded M12 - Wireable
NC-125MS-WIRE0A0



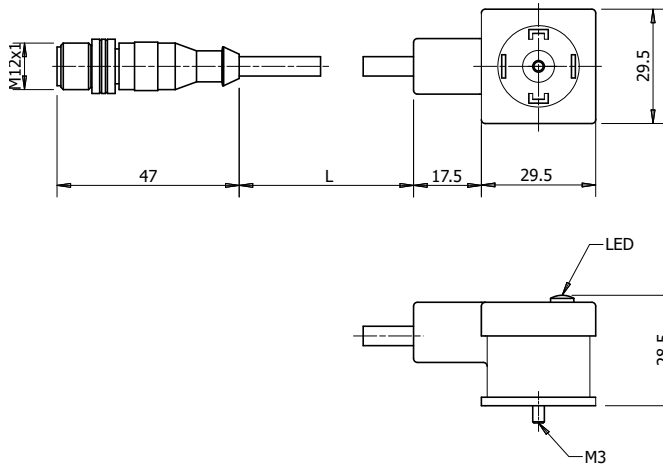
Dimensions in mm
Projection/First angle



Dimensions

Valve Connectors

DIN form A Solenoid Connector with LED

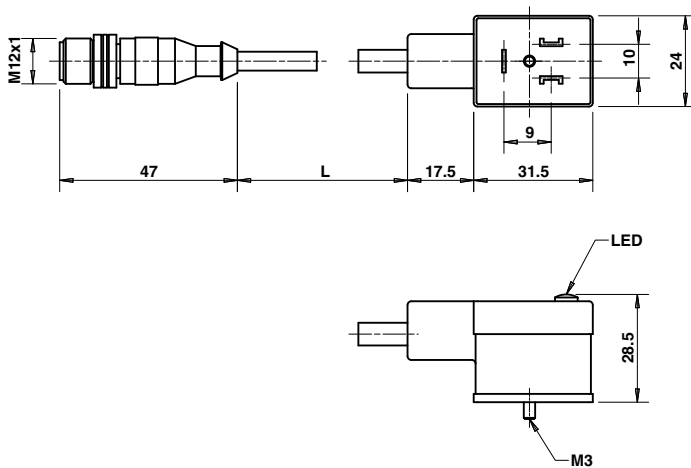


Product Description	Cable length (m) L	Model
3 Pin A-coded M12	0.6	NC-DINAA-123MS-A
3 Pin A-coded M12	1.0	NC-DINAA-123MS-1
3 Pin A-coded M12	2.0	NC-DINAA-123MS-2
3 Pin A-coded M12	5.0	NC-DINAA-123MS-5
Open End	1.0	M/P43316/11
Open End	3.0	M/P43316/13

Dimensions in mm
Projection/First angle

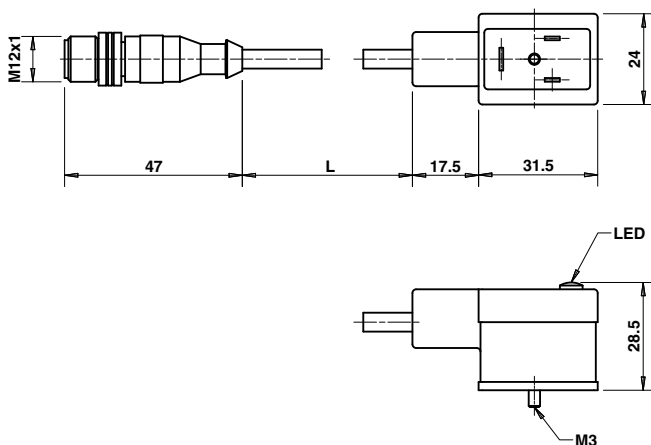


DIN form B Solenoid Connector with LED



Product Description	Cable length (m) L	Model
3 Pin A-coded M12	0.6	NC-DINBA-123MS-A
3 Pin A-coded M12	1.0	NC-DINBA-123MS-1
3 Pin A-coded M12	2.0	NC-DINBA-123MS-2
3 Pin A-coded M12	5.0	NC-DINBA-123MS-5
Open End	1.0	NC-DINBA-00000-1
Open End	3.0	NC-DINBA-00000-3

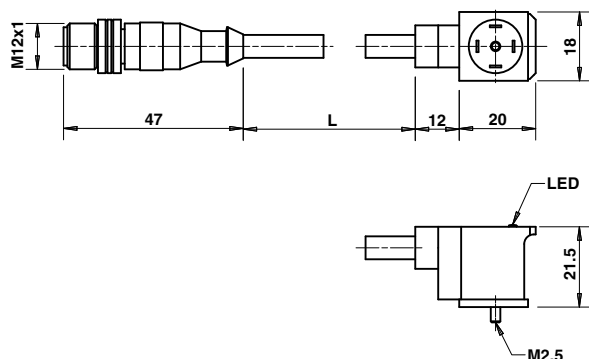
DIN form B Industrial Standard Solenoid Connector with LED



Product Description	Cable length (m) L	Model
3 Pin A-coded M12	0.6	NC-DINIA-123MS-A
3 Pin A-coded M12	1.0	NC-DINIA-123MS-1
3 Pin A-coded M12	2.0	NC-DINIA-123MS-2
3 Pin A-coded M12	5.0	NC-DINIA-123MS-5
Open End	1.0	M/P43314/11
Open End	3.0	M/P43314/13

DIN form C Solenoid Connector with LED

Dimensions in mm
Projection/First angle



Product Description	Cable length (m) L	Model
3 Pin A-coded M12	0.6	NC-DINCA-123MS-A
3 Pin A-coded M12	1.0	NC-DINCA-123MS-1
3 Pin A-coded M12	2.0	NC-DINCA-123MS-2
3 Pin A-coded M12	5.0	NC-DINCA-123MS-5
Open End	1.0	V10014-D01
Open End	3.0	V10014-D03

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.