

Your Global Automation Partner

TURCK



Ford V769 – Ford BX726 Craiova

Project Manual

Electrical Component Approved Source List	3
Contacts	11
Sensor Technology – Inductive	12
Sensor Technology – Magnetic Field	18
Sensor Technology – Linear Position	20
Sensor Technology – Ultrasonic	21
Sensor Technology – Laser Distance Sensor	23
Sensor Technology – Laser Pointer	24
Sensor Technology – Pressure	25
Sensor Technology – Temperature	26
Sensor Technology – Inductive Coupler	27
Sensor Technology – Accessories	28
Identification – Read/write Head	30
Identification – Data Carrier HF/UHF	31
Identification – Interface	32
Fieldbus Technology – I/O Module Series "Large"	33
Fieldbus Technology – Ethernet Spanner	35
Fieldbus Technology – I/O-Module for Interbus	36
Machine Safety – Safety I/O Module	37
Fieldbus Technology – I/O Module Series "Small"	39
Fieldbus Technology – Modular I/O System in IP67	41
Fieldbus Technology – I/O Modules in IP20	44
Fieldbus Technology – Modular I/O System in IP20	45
Fieldbus Technology – Managed Switch	46
Fieldbus Technology – BL67 Gateway to Parker Valve	47
Connectivity – Cables and Flanges Ethernet	48
Connectivity – Bulk Cable Ethernet	51
Connectivity – Accessories	52
Connectivity – Available Stock Ethernet Cordsets	53
Connectivity – Accessories Ethernet	57
Connectivity – Junction for Multibus	58
Connectivity – Cables and Flanges Power 24 V	59
Connectivity – Available Stock Power Cordsets	63
Connectivity – Cables and Flanges M23	64
Connectivity – Cables and Flanges Sensor-Actuator	67
Connectivity – Splitter	68
Connectivity – Passive Junction Box	70
IO-Link – Concepts	72
IO-Link – IO-Link Master	78
IO-Link – I/O Hubs	79
IO-Link – Tower Lights	80
LED Technology – Tower Lights and Indicators	81
Your Global Automation Partner	83

Electrical Component Approved Source List



No	Supplier	Typ ID	Art. No.	Description	D or N or C
503	Turck	AB7675		HMS Anybus X gateway Interbus slave / EtherNet/IP Scanner (to connect EtherNet/IP slave devices, as Turck BL67-GW-EN, on existing lines with interbus)	
436	Turck	Bi1,5U-EGT08-AP6X-H1141	4600555	Prefered prox. Switch (M8) of U-ES 002 uprox Hanging Line only..	
439	Turck	Bi10U-MT30-AP6X-H1141	1636240	Prefered prox. Switch (M30 of U-ES 002 uprox	
444	Turck	Bi15U-CK40-AP6X2-H1141	1625600	Prefered prox. Switch (M30 of U-ES 002 uprox	
442	Turck	Bi15U-MT30-AP6X-H1141	1636734	Prefered prox. Switch (M30 of U-ES 002 uprox	
445	Turck	Bi20U-CA40-AP6X-H1141	1627200	Only for critical weld applications (die cast housing GD-ALSI 12)	
446	Turck	Bi30U-CK40-AP6X2-H1141	1625829	Prefered prox. Switch (Square) of U-ES 002 uprox +	
447	Turck	Bi30U-CP40-AP6X2	1625830	for conveyors only, with Terminal chamber uprox +	
437	Turck	Bi3U-MT12-AP6X-H1141	1634240	Prefered prox. Switch (M12) of U-ES 002 uprox	
440	Turck	Bi4U-MT12-AP6X-H1141	1634809	Prefered prox. Switch (M12) of U-ES 002 uprox +	
448	Turck	Bi50U-Q80-AP6X2-H1141	1608940	Prefered prox. Switch (Square) of U-ES 002 uprox	
438	Turck	Bi5U-MT18-AP6X-H1141	1635240	Prefered prox. Switch (M18) of U-ES 002 uprox	
443	Turck	Bi5U-Q12-AP6X2-H1141	1635526	Prox. Switch (Q12) rectangular	
441	Turck	Bi8U-MT18-AP6X-H1141	1644730	Prefered prox. Switch (M18) of U-ES 002 uprox +	
457	Turck	BIM-IKM-AP6X2-H1141/S34	46272	Magnet Inductive Switch	
458	Turck	BIM-NST-AP6X-H1141/S34	4685401	Magnet Inductive Switch for short cylinders	
459	Turck	BIM-UNT-AP6X-0,3-RS4	4685725	Magnet Inductive Switch	
497	Turck	BL20-E-8DI-24VDC-P	6827227	BL20 electronic module, 8 digital inputs, 24 VDC	
498	Turck	BL20-E-8DO-24VDC-0.5A-P	6827226	BL20 electronic module, 8 digital outputs 0,5 A	
505	Turck	BL20-E-GW-EN	6827329	Gateway Multiprotocol (>VN03-00) in IP20 for BL20 I/O modular system and -RFID system, interface for EtherNet/IP with integrated switch	
499	Turck	BL20-PF-24VDC	6827007	BL20 electronic modules, Power feeding module with diagnostics function	
486	Turck	BL67-16DO-0.1A-P	6827221	BL67 electronic module, 16 digital outputs 0,1 A, with channel diagnostics. Usable for Quick connect applications	

Electrical Component Approved Source List



No	Supplier	Typ ID	Art. No.	Description	D or N or C
876	Turck	BL67-2RFID-S	682705	RFID interface for BL67, 2 channels, usable for HF and UHF read/write heads. BL67 base module and gateway BL67-GW-EN necessary. Function block for Rockwell available (Dave Green) RFID HF already in use in existing Craiova installations	
482	Turck	BL67-4DI-P	6827171	BL67 electronic module, 4 digital inputs, 24 VDC, usable for Quick Connect applications	
484	Turck	BL67-4DO-2A-P	6827174	BL67 electronic module, 4 digital outputs 2 A, with channel diagnostics, usable for Quick Connect applications	
488	Turck	BL67-4IOL	6827386	BL67 electronic module, 4 IO link master channels + 4 configurable digital channels, 0,5 A for outputs	
483	Turck	BL67-8DI-P	6827170	BL67 electronic module, 8 digital inputs, 24 VDC, usable for Quick Connect applications	
485	Turck	BL67-8DO-0.5A-P	6827172	BL67 electronic module, 8 digital outputs 0,5 A, with channel diagnostics, usable for Quick Connect applications	
487	Turck	BL67-8XSG-P	6827310	BL67 electronic module, 8 configurable digital channels, 0,5 A for outputs, usable for Quick Connect applications	
494	Turck	BL67-B-1M23-12	6827213	BL67 base module, 1 x M23 connector, 12-pole	
493	Turck	BL67-B-1M23-19	6827216	BL67 base module, 1 x M23 connector, 19-pole, jumpercable see further CSM CKM 19....	
504	Turck	BL67-B-1RSM	6827190	BL67 base module, 1 x 7/8" connector, 5-pole	
877	Turck	BL67-B-2M12	6827186	BL67 base module, 2 x M12 connector, 5 pole	
491	Turck	BL67-B-2M12-P	6827194	BL67 base module, 2 x M12 connector, 5 pole, paired	
492	Turck	BL67-B-4M12-P	6827187	BL67 base module, 4 x M12 connector, 5 pole, paired	
490	Turck	BL67-E	6827347	Dummy module/blind cover	
481	Turck	BL67-GW-EN	6827214	Gateway Multiprotocol in IP67 for BL67 I/O modular system and-RFID system, interface for EtherNet/IP with integrated switch and EIP QUICK CONNECT functionality	
489	Turck	BL67-PF-24VDC	6827182	BL67 electronic modules, Power feeding module with diagnostics function	
495	Turck	FEN20-16DXP	6931089	IP 20 Multiprotocol compact stand alone field-busstation for EtherNet/IP, 16 configurable digital channels, 1 A for outputs, 3 Separated power groups, integrated switch, EIP QUICK CONNECT functionality, bus in-out RJ45. Built-in web server	

Electrical Component Approved Source List



No	Supplier	Typ ID	Art. No.	Description	D or N or C
496	Turck	FEN20-4DIP-4DXP	6931090	IP 20 Multiprotocol compact stand alone fieldbusstation for EtherNet/IP, 4 DI + 4 configurable digital channels, 1 A for outputs, integrated switch, EIP QUICK CONNECT functionality, bus in-out RJ45. Built-in web server	
883	Turck	FLIB-IOM124-0002	6825366	IP67 robot I/O module for Interbus S with 12 DI and 4 DO 2 A. Power and bus connection via 17 pole multibus 1 in and out	
460	Turck	KLI5	6971802	Clamp for magnet inductive switch	
461	Turck	KLN3	6970504	Clamp for magnet inductive switch	
749	Turck	LE550KQ	3097761	Banner Laser distance sensor, diffuse triangulation, 100...1000 mm, PNP switching output with IO-link, 2-line 8-segment display	
744	Turck	LI200P0-Q25LM0-ELI-UPN8X3-H1151	1590604	Inductive linear position sensor 200 mm with universal outputs :analog, IO-link and 2 digital (4 zones). Use in combination with P1-LI-Q25L 6901041 guided positioning element	
750	Turck	LTF12KC2LDQ	3801130	Banner Laser Distance sensor, diffuse time-of-light, 0,5...12 m, PNP switching out + PNP switching out with IO-link, 2- line 8- segment display	
455	Turck	NI100U-K90SR-VP4X2-H1141	1625844	Prox. Switch with extended switching distance	
450	Turck	Ni12U-MT18-AP6X-H1141	1645240	Prefered prox. Switch (M18) of U-ES 002 uprox	
452	Turck	NI20-Q14-AP6X2-V1131	4690210	Prefered prox. Switch (rectangular)	
451	Turck	Ni20U-MT30-AP6X-H1141	1646240	Prefered prox. Switch (M30) of U-ES 002 uprox	
456	Turck	NI4-DSC26-2AP6X2-H1141	1650087	Inductive Valve Switch with NO and NC output for water and air panels. To combine with BTS-DSC26-EB1 (53 mm) or EB2 (62 mm) puck	
453	Turck	Ni50U-CK40-AP6X2-H1141	1625837	Prefered prox. Switch (Square) of U-ES 002 uprox + flush mounting possible with reduced distance.	
454	Turck	NI75U-CP80-AP6X2-H1141	1623805	Prefered prox. Switch (Square) of U-ES 002 uprox	
449	Turck	Ni8U-MT12-AP6X-H1141	1644240	Prefered prox. Switch (M12) of U-ES 002 uprox	
885	Turck	NICP-M30-8P8-0,3-RSC12T	4300201	Inductive coupler for power and data primary side with 8 PNP outputs in M30 barrel (needs to be combined with a secondary side unit)	
886	Turck	NICP-M30-IOL2P8X-H1141	4300101	Inductive coupler for power and data primary side with IO-link and 2 PNP outputs in M30 barrel (needs to be combined with a secondary side unit)	

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No	Supplier	Typ ID	Art. No.	Description	D or N or C
884	Turck	NICS-M30-IOL2P8-0,3-RKC4.4T	4300301	Inductive coupler for power and data secondary side in M30 barrel (needs to be combined with a primary side unit) Can be used with all IO link masters. High deviation in position and angle allowed. Higher distance between prim and sec part	
873	Turck	NIMFE-EM12/4,0L60-L60-UP6X-H1141/S1182	1600621	Switch for detection from weldnut presence - short version- starting from M5	
462	Turck	NIMFE-M12/4,6L88-UP6X-H1141	1600608	Switch for detection from weldnut presence - starting from M6	
463	Turck	NIMFE-M12/6,2L101-UP6X-H1141	1600609	Switch for detection from weldnut presence - starting from M8	
741	Turck	PN-M12	6905309	Screw cap for threaded barrel sensors M12	
742	Turck	PN-M18	6905310	Screw cap for threaded barrel sensors M18	
743	Turck	PN-M30	6905308	Screw cap for threaded barrel sensors M30	
755	Turck	PS016V-501-LI2UPN8X-H1141	6832842	Pressure sensor range -1...+16 bar with switching output or IO-LINK on output 1 and switching output or analog output on output 2. Display on board. Rotatable after mounting.	
888	Turck	PS016V-501-LI2UPN8X-H1141	6832842	Pressure sensor range -1...+16 bar with switching output or IO-LINK on output 1 and switching output or analog output on output 2. Display on board. Rotatable after mounting.	
500	Turck	PSGS4M-PSGS4M-4416-Xm (M8-M8) PSGS4M-RJ45S-4416-xM (RJ45-M8) RSSD-PSGS4M-4416-xM (M12-M8) x = length in meter		EtherNet/IP connectivity, Premoulded cabling preferred, IP67, M8 with anti-vibration protection. M8 connector, straight. Ethernet cable: 4-pole, AWG 22 CAT 5E , Jacket material: PUR halogene free, color green, flame-retardant acc.IEC 60332-1-2, Trailing-drag chain capable, Shielding over 360°, CE and UL approved, UV resistant	
747	Turck	Q4XTKLAF300-Q8	3095301	Banner Laser Distance sensor, diffuse triangulation, 25...300 mm PNP switching out and PNP switching out with IO-link, dual mode functionality and reliability by distance and light intensity	
748	Turck	Q4XTKLAF600-Q8	3095301	Banner Laser Distance sensor, diffuse triangulation, 25...600 mm PNP switching out and PNP switching out with IO-link, dual mode functionality and reliability by distance and light intensity	
878	Turck	RK4.5T-5-RS4.5T/S2500	6699201	BL ident cable -5 meter- between interface/ base and read/write head for BL67. Other lengths up to 50 m available	

Electrical Component Approved Source List



No	Supplier	Typ ID	Art. No.	Description	D or N or C
752	Turck	RSM40-RKM50-RKM40/CS		T-Adapter 4 pin 7/8" in and out to 5 pin 7/8" female. Closure caps RKF-CC (female) and RSF-CC (male) with eyelet available.	
751	Turck	RSM50-RKM40-RKM50/CS		T-Adapter 5 pin 7/8" in and out to 4 pin 7/8" female. Closure caps RKF-CC (female) and RSF-CC (male) with eyelet available.	
753	Turck	RSSD-RSSD-4416-xM (M12-M12) RSSD-RJ45S-4416-xM (M12-RJ45) RJ45S-RJ45S-4416-xM (RJ45-RJ45) x=length in meter		EtherNet/IP connectivity, Premoulded cabling preferred, IP67, M12 D-coded with anti-vibration protection. RJ45 version premoulded. M12 connector, straight. Ethernet cable: 4-pole, AWG 22 CAT 5E, Jacket material PUR halogen-free,color green, flame-retardant acc. IEC 60332-1-2, Trailing-drag chain capable, Shielding over 360°, CE and UL approved, UV resistant	
754	Turck	RSS-RSS-841-xM (M12-M12) RSS-RJ45S-841-xM (M12-RJ45) RJ45S-RJ45S-841-xM (RJ45-RJ45) x=length in meter		EtherNet/IP connectivity, Premoulded cabling preferred, IP67, M12 D-coded with anti-vibration protection. RJ45 version premoulded. M12 connector, straight. Ethernet cable: 8-pole, AWG 24, Jacket material PUR, color green, flame-retardant, Trailing-drag chain capable, Shielding over 360°, UV resistant	
746	Turck	RU130U-M18ES-LI-U2PN8X2T-H1151	1610027	Ultrasonic sensor M18, diffuse mode sensor, side view, sensing range 15...130 cm, teach via pushbutton or from externally, 2-PNP digital out, analog and IO-link	
465	Turck	RU130U-M18M-UP8X2-H1151	1610014	Ultrasonic sensor M18, diffuse mode sensor, sensing range: 15...130 cm	
745	Turck	RU40U-M18ES-LIU2PN8X2T-H1151	1610025	Ultrasonic sensor M18, diffuse mode sensor, side view, sensing range 2,5...40 cm, teach via pushbutton or from externally, 2-PNP digital out, analog and IO-link	
464	Turck	RU40U-M18M-UP8X2-H1151	1610008	Ultrasonic sensor M18, diffuse mode sensor, sensing range: 2,5...40 cm	
475	Turck	SE-44M-E924	6607004	IP67 managable switch 8 port (M12) ; only for new architecture with two ethernet interfaces at the Line PC ; only to be used at device level (level 03) ; own responsibility to create the required diagnostics	
467	Turck	TBEN-L1-16DIP	6814005	IP 67 Multiprotocol I/O module for EtherNet/IP, 16 Digital Inputs with diagnostics, Built-in web server, integrated switch, EIP QUICK CONNECT functionality, bus in-out M12 D-coded, power in-out 7/8"-5 pins	
468	Turck	TBEN-L1-16DOP	6814007	IP 67 Multiprotocol I/O module for EtherNet/IP, 16 Digital Outputs 2 A, with diagnostics, Built-in web server, integrated switch, EIP QUICK CONNECT functionality, bus in-out M12 D-coded, power in-out 7/8"-5 pins	

Electrical Component Approved Source List



No	Supplier	Typ ID	Art. No.	Description	D or N or C
470	Turck	TBEN-L1-16DXP	6814008	IP 67 Multiprotocol I/O module for EtherNet/IP , 16 configurable digital channels with diagnostics, 2 A for outputs, 2 Separated power groups, Built-in web server, integrated switch, EIP QUICK CONNECT functionality, bus in-out M12 D-coded, power in-out 7/8"-5 pins	
469	Turck	TBEN-L1-8DIP-8DOP	6814006	IP 67 Multiprotocol I/O module for EtherNet/IP , 8 Digital Inputs and 8 Digital Outputs 2 A, with diagnostics, 2 Separated power groups, Built-in web server, integrated switch, EIP QUICK CONNECT functionality, bus in-out M12 D-coded, power in-out 7/8"-5 pins	
473	Turck	TBEN-L1-FDIO1-2IOL	6814050	IP 67 Safety I/O module for SafeCrossCommunication over EtherNet, non-safe I/O and status Multiprotocol, I/O: in case SIL3 (2FDI + 2FDO), in case SIL2 (4FDI +2FDO (or 4FDI instead of 2FDO)), 6 configurable digital non-safe channels + 2 IO-Link master channels (or normal DI), integrated switch, Built-in web server, , bus in-out M12 D-coded, power in-out 7/8"-5 pins.	
471	Turck	TBEN-L5-8IOL	6814017	IP 67 Multiprotocol I/O module for EtherNet/IP , 8 IO link master channels + 8 configurable digital channels with diagnostics, 2A for outputs, integrated switch, Built-in web server, bus in-out M12 D-coded, power in-out 7/8"-5 pins	
474	Turck	TBEN-L5-EN1	6814035	IP 67 module in TBEN block I/O housing for variable exchange between 2 EtherNet/IP networks	
478	Turck	TBEN-S1-4DIP-4DOP	6814021	COMPACT IP 67 Multiprotocol I/O module for EtherNet/IP ,4 Digital inputs + 4 Digital outputs (2A), Built-in web server, integrated switch, EIP QUICK CONNECT functionality, bus in-out M8, power in-out M8-4 pins. Only for robot End-of-Arm tooling .	
476	Turck	TBEN-S1-8DIP	6814020	COMPACT IP 67 Multiprotocol I/O module for EtherNet/IP , 8 Digital inputs, Built-in web server, integrated switch, EIP QUICK CONNECT functionality, bus in-out M8, power in-out M8-4 pins. Only for robot End-of-Arm tooling .	
477	Turck	TBEN-S1-8DOP	6814022	COMPACT IP 67 Multiprotocol I/O module for EtherNet/IP , 8 Digital outputs (0,5A), Built-in web server, integrated switch, EIP QUICK CONNECT functionality, bus in-out M8, power in-out M8-4 pins. Only for robot End-of-Arm tooling .	

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No	Supplier	Typ ID	Art. No.	Description	D or N or C
479	Turck	TBEN-S1-8DXP	6814023	COMPACT IP 67 Multiprotocol I/O module for EtherNet/IP, 8 configurable digital channels, outputs (0,5A), Built-in web server, integrated switch, EIP QUICK CONNECT functionality, bus in-out M8, power in-out M8-4 pins. Only for robot End-of-Arm tooling.	
480	Turck	TBEN-S2-4IOL	6814024	COMPACT IP 67 Multiprotocol I/O module for EtherNet/IP, 4 IO link master channels + 4 configurable digital channels, 0,5 A for outputs, Built-in web server, integrated switch, bus in-out M8, power in-out M8-4 pins. Only for robot End-of-Arm tooling.	
875	Turck	TBIL-M1-16DXP	6814102	IP67 I/O module for IO-link with 16 configurable digital channels	
472	Turck	TBIP-L4-FDIO1-2IOL	6814056	IP 67 Safety I/O module for CIP-safe over EtherNet/IP, IO: in case SIL3 (2FDI + 2FDO), in case SIL2 (4FDI + 2FDO (or 4FDI in stead of 2FDO)), 6 configurable digital non- safe channels + 2 IO-link master channels (or normal DI), integrated switch, Built-in web server, bus in-out M12 D-coded, power in-out 7/8"-4 pins. Attention : 4 pin power cable/connector necessary - see Turck projectmanual . See also 7/8" T-adaptors for transition between 4 and 5 pole.	
879	Turck	TNLR-Q80-H1147	7030230	HF read/write head, rectangular 80x80mm, 40 mm height	
881	Turck	TNSLR-Q42TWD-H1147	7030424	HF read/write head, compact rectangular 42,5 x 42,5 mm, 68 mm height	
880	Turck	TNSLR-Q80WD-H1147	7030418	HF read/write head, rectangular 80 x 80 mm, 40 mm height, 70 % higher range comparing to TNLR-Q80-H1147	
466	Turck	TS-516-LI2UPN8X-H1141-L016	6840026	Temperature sensor range -50...+150 °C with switching output or IO-LINK on output 1 and switching output or analog output on output 2. Display on board.Rotatable after mounting. Sensor length 16 mm	
874	Turck	TS-516-LI2UPN8X-H1141-L050	6840028	Temperature sensor range -50...+150 °C with switching output or IO-LINK on output 1 and switching output or analog output on output 2. Display on board. Rotatable after mounting.Sensor length 50 mm. L050 for air/water panels only	
882	Turck	TW-R50-K2	6900507	HF data carrier, read/write, 2 Kbytes memory size. Spacer DS-R50 6900507 necessary for indirect mounting HF data carrier on metal	

Electrical Component Approved Source List



No	Supplier	Typ ID	Art. No.	Description	D or N or C
501	Turck	VB2-M23ST-M23KU-RKF50-01	6931776	Splitter 17 pole for MultiBus1, M23 male connector (external thread) to M23 female connector (external thread) and 7/8" female flanch in order to branch-off 24 VDC (UB and UL) out of the multibus robot cable	
502	Turck	VB2-M23ST-M23KU-RKF50-02	6932156	Splitter 17 pole for MultiBus1, M23 male connector (external thread) to M23 female connector (internal thread) and 7/8" female flanch in order to branch-off 24 VDC (UB and UL) out of the multibus robot cable. Possible to mount direct on the I/O block	
889	Turck			EtherNet/IP connectivity, Premoulded cabling preferred, IP67, M12 D-coded with anti-vibration protection. M12 connector, straight. Ethernet cable: 4-pole, AWG 22 / 7 acc. to ISO/IEC 11801 CAT 5E, Sheath material PUR halogen-free, green, flame-retardant acc.IEC 60332-1, Trailing-drag chain capable, Shielding over 360°, UL approved, UV resistant	
890	Turck			EtherNet/IP connectivity, Premoulded cabling preferred, IP67, M8 with anti-vibration protection. M8 connector, straight. Ethernet cable: 4-pole, AWG 26 CAT 5E acc. to ISO/IEC 11801, EN 50173, EIA/TIA 568-A, Sheath material: PUR halogene free, green, flame-retardant acc.IEC 60332-1, Trailing-drag chain capable, Shielding over 360°, UL approved, UV resistant	

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Sensor Technology – Inductive

BI1.5U-EGT08-AP6X-H1341	–	Ident-No. 4600555
	Inductive sensor ■ Threaded barrel, M8 x 1 ■ Stainless steel, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 1.5 mm, Flush	
BI3U-MT12-AP6X-H1141	–	Ident-No. 1634240
	Inductive sensor ■ Threaded barrel, M12 x 1 ■ Brass, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Resistant to magnetic fields ■ Extended temperature range Rated switching distance: 3 mm, Flush	
BI4U-MT12-AP6X-H1141	–	Ident-No. 1634809
	Inductive sensor ■ Threaded barrel, M12 x 1 ■ Brass, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Large switching distance ■ Recessed mountable Rated switching distance: 4 mm, Flush	
BI5U-MT18-AP6X-H1141	–	Ident-No. 1635240
	Inductive sensor ■ Threaded barrel, M18 x 1 ■ Brass, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 5 mm, Flush	

BI8U-MT18-AP6X-H1141	–	Ident-No. 1644730
	Inductive sensor ■ Threaded barrel, M18 x 1 ■ Brass, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Large switching distance ■ Recessed mountable Rated switching distance: 8 mm, Flush	
BI10U-MT30-AP6X-H1141	–	Ident-No. 1636240
	Inductive sensor ■ Threaded barrel, M30 x 1.5 ■ Brass, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 10 mm, Flush	
BI15U-MT30-AP6X-H1141	–	Ident-No. 1636734
	Inductive sensor ■ Threaded barrel, M30 x 1.5 ■ Brass, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Large switching distance ■ Recessed mountable Rated switching distance: 15 mm, Flush	
NI8U-MT12-AP6X-H1141	–	Ident-No. 1644240
	Inductive sensor ■ Threaded barrel, M12 x 1 ■ Brass, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 8 mm, Non-flush	

NI12U-MT18-AP6X-H1141	–	Ident-No. 1645240
	Inductive sensor ■ Threaded barrel, M18 x 1 ■ Brass, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 12 mm, Non-flush	
NI20U-MT30-AP6X-H1141	–	Ident-No. 1646240
	Inductive sensor ■ Threaded barrel, M30 x 1.5 ■ Brass, PTFE-coated ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 20 mm, Non-flush	
BI15U-CK40-AP6X2-H1141	–	Ident-No. 1625600
	Inductive sensor ■ Rectangular, height 40 mm ■ Variable orientation of active face in 5 directions ■ Plastic, PBT-GF30-V0 ■ High luminance corner LEDs ■ Optimum view on supply voltage and switching state from any position ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 15 mm, Flush	
BI20U-CA40-AP6X2-H1141	–	Ident-No. 1627200
	Inductive sensor ■ Rectangular, height 40 mm ■ Variable orientation of active face in 5 directions ■ Sensor housing GD-ALSI 12 ■ Active face PA6-GF30 ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Resistant to magnetic fields ■ High switching frequency Rated switching distance: 20 mm, Flush	

BI20U-CK40-AP6X2-H1141	–	Ident-No. 1627233
	Inductive sensor ■ Rectangular, height 40 mm ■ Variable orientation of active face in 5 directions ■ Plastic, PBT-GF30-V0 ■ High luminance corner LEDs ■ Optimum view on supply voltage and switching state from any position ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Large coverage ■ High switching frequency Rated switching distance: 20 mm, Flush	
BI30U-CK40-AP6X2-H1141	–	Ident-No. 1625829
	Inductive sensor ■ Rectangular, height 40 mm ■ Variable orientation of active face in 5 directions ■ Plastic, PBT-GF30-V0 ■ High luminance corner LEDs ■ Optimum view on supply voltage and switching state from any position ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Large coverage ■ High switching frequency Rated switching distance: 30 mm, Flush see accessory MF-CK40-3S	
MF-CK40-3S	–	Ident-No. 6900483
	Accessories ■ Protective frame (U profile) use with BI30U-CK40-AP6X2-H1141, NI50U-CK40-AP6X2-H1141 and BI30U-CP40-AP6X	
NI50U-CK40-AP6X2-H1141	–	Ident-No. 1625837
	Inductive sensor ■ Rectangular, height 40 mm ■ Variable orientation of active face in 5 directions ■ Plastic, PBT-GF30-V0 ■ High luminance corner LEDs ■ Optimum view on supply voltage and switching state from any position ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Increased switching distance ■ Protection class IP68 ■ Resistant to magnetic fields ■ Auto-compensation protects against pre-attenuation ■ Partially embeddable Rated switching distance: 50 mm, Non-flush, see accessory MF-CK40-3S	

BI30U-CP40-AP6X2	–	Ident-No. 1625830
	Inductive sensor ■ Rectangular, height 40 mm ■ Variable orientation of active face in 9 directions ■ Plastic, PBT-GF30-V0 ■ High luminance corner LEDs ■ Optimum view on supply voltage and switching state from any position ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ Terminal chamber ■ Factor 1 for all metals ■ Protection class IP68 ■ Resistant to magnetic fields ■ Large coverage ■ High switching frequency Rated switching distance: 30 mm, Flush, see accessory MF-CK40-3S	
BI50U-Q80-AP6X2-H1141	–	Ident-No. 1608940
	Inductive sensor ■ Rectangular, height 40 mm ■ Active face on top ■ Plastic, PBT-GF30-V0 ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Increased switching distance ■ Protection class IP68 ■ Resistant to magnetic fields Rated switching distance: 50 mm, Flush	
NI75U-CP80-AP6X2-H1141	–	Ident-No. 1623805
	Inductive sensor With increased switching distance ■ Rectangular, height 41 mm ■ Plastic, PBT-GF30-V0 ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Resistant to magnetic fields ■ Large coverage ■ Extended temperature range ■ High switching frequency Rated switching distance: 75 mm, Non-flush	
NI100U-K90SR-VP4X2-H1141	–	Ident-No. 1625844
	Inductive sensor ■ Rectangular, height 60 mm ■ Plastic, PBT-GF30-V0 ■ DC 4-wire, 10...65 VDC ■ Changeover contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Increased switching distance ■ Protection class IP68 ■ Resistant to magnetic fields ■ Extended temperature range ■ Auto-compensation protects against pre-attenuation ■ One-sided fitting possible Rated switching distance: 100 mm, Non-flush	

BI5U-Q12-AP6X2-H1141	–	Ident-No. 1635526
	Inductive sensor ■ Rectangular, height 12 mm ■ Active face, lateral ■ Plastic, PBT-GF30-V0 ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M12 x 1 male connector ■ Factor 1 for all metals ■ Increased switching distance ■ Protection class IP68 ■ Resistant to magnetic fields ■ Mountable on metal Rated switching distance: 5 mm, Flush	
NI20-Q14-AP6X2-V1131	–	Ident-No. 4690210
	Inductive sensor ■ Rectangular, height 14 mm ■ Active face on top ■ Plastic, PBT-GF30-V0 ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ M8 x 1 male connector Rated switching distance: 20 mm, Non-flush	
NI4-DSC26-2AP6X2-H1141	–	Ident-No. 1650087
	Inductive dual sensor For rotary actuators ■ Rectangular, housing DSC26 ■ Plastic, PP ■ Two outputs for monitoring the position of rotary actuators ■ 2 x NO contact, PNP output ■ DC 4-wire, 10...30 VDC ■ Mounting on all standard actuators Rated switching distance: 4 mm, Non-flush	

Sensor Technology – Magnetic Field

BIM-IKM-AP6X2-H1141/S34	–	Ident-No. 46272
	Magnetic Field Sensor for pneumatic cylinders (magnetic-field immune) ■ Rectangular, height 34 mm ■ Metal, GD-Zn ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ Male connector, M12 x 1 ■ Magnetic-inductive sensor ■ Weld resistant to AC fields of 50...60 Hz	
BIM-NST-AP6X-H1141/S34	–	Ident-No. 4685401
	Magnetic Field Sensor for pneumatic cylinders (magnetic-field immune) ■ Plastic, PA12-GF30 ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ Male connector, M12 x 1 ■ Magnetic-inductive sensor ■ Weld resistant to AC fields of 50...60 Hz	
BIM-UNT-AP6X-0.3-RS4	–	Ident-No. 4685725
	Magnetic Field Sensor for pneumatic cylinders ■ For T-groove cylinders without mounting accessories ■ Optional accessories for mounting on other cylindrical housings. ■ One-hand mounting possible ■ Fine adjustment tool and stopper directly mountable on the sensor ■ Stable mounting ■ DC 3-wire, 10...30 VDC ■ NO contact, PNP output ■ Pigtail with male end, M12 x 1 Cable length 0.3 m ■ Magneto-resistive sensor	
KLI5	–	Ident-No. 6971802
	Accessories for profile cylinders Mounting accessories for magnetic-inductive sensors for mounting on profile cylinders with diameters of 32...50 mm, aluminium	
KLN3	–	Ident-No. 6970504
	Accessories for T-groove and dovetail groove cylinders ■ Mounting on profile cylinders with internal dovetail guide and T-groove ■ All cylinder diameters ■ Metal: anodized aluminium	

NIMFE-EM12/4.0L61-UP6X-H1141/ S1182	–	Ident-No. 1600621
	Magnetic field sensor With TIN Coating For Detection of Ferromagnetic Parts ■ Threaded barrel, M12 x 1 ■ Stainless steel, 1.4301 ■ DC 3-wire, 10...30 VDC ■ NC/NO parametrizable with teach adapter VB2-SP1 ■ M12 x 1 male connector	
NIMFE-M12/4.6L88-UP6X-H1141	–	Ident-No. 1600608
	Magnetic field sensor For Detection of Ferromagnetic Parts ■ Threaded barrel, M12/M8 ■ Chrome-plated brass ■ DC 3-wire, 10...30 VDC ■ NC/NO parametrizable with teach adapter VB2-SP1 ■ M12 x 1 male connector	
NIMFE-M12/6.2L101-UP6X-H1141	–	Ident-No. 1600609
	Magnetic field sensor For Detection of Ferromagnetic Parts ■ Threaded barrel, M12/M8 ■ Chrome-plated brass ■ DC 3-wire, 10...30 VDC ■ NC/NO parametrizable with teach adapter VB2-SP1 ■ M12 x 1 male connector	
VB2-SP1	–	Ident-No. A3501-29
	Teach adapter for weld nut sensors ■ Male connector M12 x 1	

Sensor Technology – Linear Position

LI200P0-Q25LM0-ELIUPN8X3-H1151

–

Ident-No. 1590604



Inductive Linear Position Sensor
IO-Link

- Rectangular, aluminium / plastic
- Versatile mounting possibilities
- 15...30 VDC
- Analog output, factory setting 0...10 V
- All functions programmable via IO-Link / PACTware
- 4 programmable switching zones
- Programmable current and voltage output functions
- NC / NO programmable functions, available as NPN or PNP version
- Process value 16 bit IO-Link telegram
- M12 x 1 male, 5-pin
- Measuring range indicated via LED
- Immune to electromagnetic interferences
- Extremely short blind zones
- Programmable measuring range
- 16 bit resolution

Measuring range [A...B]: 200 mm

Sensor Technology – Ultrasonic

RU40U-M18M-UP8X2- H1151	–	Ident-No. 1610008
	Ultrasonic sensor diffuse mode sensor ■ Smooth sonic transducer face ■ Cylindrical housing M18, potted ■ Connection via M12 x 1 male ■ Temperature compensation ■ 1 x switching output, PNP ■ Teachable settings ■ NO/NC programmable ■ Blind zone: 2.5 cm ■ Range: 40 cm ■ Resolution: 0.5 mm ■ Sonic cone angle: 9° Max. range: 40 cm	
RU130U-M18E-2UP8X2- H1151	–	Ident-No. 1610014
	Ultrasonic sensor diffuse mode sensor ■ Smooth sonic transducer face ■ Cylindrical housing M18, potted ■ Connection via M12 x 1 male ■ Teach range adjustable via adapter ■ Temperature compensation ■ 2 x switching outputs, PNP ■ NO/NC programmable ■ Blind zone: 15 cm ■ Range: 130 cm ■ Resolution: 1 mm ■ Sonic cone angle: 16° Max. range: 130 cm	
RU300U-M30E-2UP8X2T- H1151	–	Ident-No. 1610040
	Ultrasonic sensor diffuse mode sensor ■ Smooth sonic transducer face ■ Cylindrical housing M30, potted ■ Connection via M12 x 1 male ■ Measuring range adjustable via teach button/Easy-Teach ■ Temperature compensation ■ 2 x switching outputs, PNP ■ NO/NC programmable ■ Blind zone: 30 cm ■ Range: 300 cm ■ Resolution: 1 mm ■ Sonic cone angle: 15° Max. range: 300 cm	

RU40U-M18ES- LIU2PN8X2T-H1151	–	Ident-No. 1610025
	Ultrasonic sensor diffuse mode sensor ■ Rectangular transducer front ■ Cylindrical housing M18, potted ■ Connection via M12 x 1 male ■ Teach range adjustable via pushbutton or adapter ■ Temperature compensation ■ 1 x switching output, PNP/NPN ■ 1 x analog output, 4...20 mA / 0...10V / additional switching output, PNP/NPN ■ NO/NC programmable ■ Transmission of process value and parametrization via IO-link ■ Blind zone: 2.5 cm ■ Range: 40 cm ■ Resolution: 0.5 mm ■ Sonic cone angle: 9° Max. range: 40 cm	
RU130U-M18ES- LIU2PN8X2T-H1151	–	Ident-No. 1610027
	Ultrasonic sensor diffuse mode sensor ■ Rectangular transducer front ■ Cylindrical housing M18, potted ■ Connection via M12 x 1 male ■ Teach range adjustable via pushbutton or adapter ■ Temperature compensation ■ 1 x switching output, PNP/NPN ■ 1 x analog output, 4...20 mA / 0...10V / additional switching output, PNP/NPN ■ NO/NC programmable ■ Transmission of process value and parametrization via IO-link ■ Blind zone: 15 cm ■ Range: 130 cm ■ Resolution: 1 mm ■ Sonic cone angle: 16° Max. range: 130 cm	
TX1-Q20L60	–	Ident-No. 6967114
	Accessories Teach Adapter ■ Teach adapter ■ For programming the measuring range of inductive linear position sensors Li-Q25L and Li-Q17L as well as inductive angle sensors Ri-QR14	

Sensor Technology – Laser Distance Sensor

Q4XTKLAF300-Q8	–	Ident-No. 3095301
	Photoelectric sensor Laser Distance Sensor (Triangulation) ■ Transmission of process value and parametrization via IO-link ■ 4-digit 7-segment LED display ■ 3 buttons ■ Output indicator (yellow) ■ IP67/69K ■ ECOLAB-certified ■ Operating voltage: 12...30 VDC ■ 1 x PNP switching output with IO-Link communication ■ 1 x PNP switching output or frequency output ■ Range: 25...300 mm ■ Laser class 1, red, 655 nm, acc. to IEC 60825-1:2007 Max. range: 300 mm	
Q4XTKLAF600-Q8	–	Ident-No. 3801918
	Photoelectric sensor Laser Distance Sensor (Triangulation) ■ Transmission of process value and parametrization via IO-link ■ 4-digit 7-segment LED display ■ 3 buttons ■ Output indicator (yellow) ■ IP67/69K ■ ECOLAB-certified ■ Operating voltage: 12...30 VDC ■ 1 x PNP switching output with IO-Link communication ■ 1 x PNP switching output or frequency output ■ Range: 25...600 mm ■ Laser class 1, red, 655 nm, acc. to IEC 60825-1:2007 Max. range: 600 mm	
LE550KQ	–	Ident-No. 3097761
	Photoelectric sensor Laser scanning system ■ Transmission of process value and parametrization via IO-link ■ 2-line 8-segment display ■ Rotatable connector, male M12 x 1, 5-pin ■ Operating voltage: 12...30 VDC ■ 1 x PNP switching output with IO-Link communication ■ Range: 100...1000 mm ■ Laser class 2, red, 650 nm, acc. to IEC 60825-1:2007 ■ Resolution at 100 mm - 600 mm distance: < 0.5 mm ■ Resolution at 600 mm - 1000 mm distance: < 1 mm Max. range: 1000 mm	
LTF12KC2LDQ	–	Ident-No. 3801130
	Photoelectric sensor Laser Scanning System ■ Transmission of process value and parametrization via IO-link ■ 2-line, 8-segment display ■ M12 x 1 male connector, rotatable, 5-pin ■ Operating voltage: 12...30 VDC ■ 1 x PNP switching output with IO-Link communication ■ 1 x PNP switching output ■ Range: 0.05...12 m ■ Laser class 2, red, 660 nm, acc. to IEC 60825-1:2007 ■ Resolution: 0.3...3 mm Max. range: 12000 mm	
APG18S	–	Ident-No. 3042703
Cover Set		

Sensor Technology – Laser Pointer

QS186LE2Q8	–	Ident-No. 3074733
	Photoelectric sensor laser emitter ■ Male M12 x 1, 4-pin ■ Protection class IP67 ■ Male M12 x 1 ■ Laser class 2 ■ LED all-round visible Max. range: 30000 mm	
QS186LE212Q8	–	Ident-No. 3074317
	Photoelectric sensor laser emitter ■ Male M12 x 1, 4-pin ■ Protection class IP67 ■ Male M12 x 1 ■ Laser class 2 ■ Horizontal line profile ■ 406 x 2.5 mm at 1 m distance ■ LED all-round visible Max. range: 30000 mm	
QS186LE214Q8	–	Ident-No. 3074732
	Photoelectric sensor laser emitter ■ Male M12 x 1, 4-pin ■ Protection class IP67 ■ M12 x 1 male ■ Laser class 2 ■ Cross-shaped beam profile ■ 155 mm at 1 m distance ■ LED all-round visible Max. range: 30000 mm	

Sensor Technology – Pressure

PS016V-504-LI2UPN8X- H1141

–

Ident-No. 6832842



Pressure Sensor (rotatable)
With Analog Output and PNP/NPN Transistor Switching Output
output 2 reprogrammable as switching output

- Housing is rotatable after plugging the process connection
- Reading of adjusted values without tool
- Recessed pushbutton and keylock for secure programming
- Permanent indication of pressure (bar, psi, kPa, MPa, misc)
- Peak pressure memory
- Pressure range -1...16 bar rel.

IO-Link

Sensor Technology – Temperature

TS-516-LI2UPN8X-H1141-L016	–	Ident-No. 6840026
	Temperature measurement with current output and PNP/NPN transistor switching output output 2 reprogrammable as switching output ■ Housing is rotatable after plugging the process connection ■ Reading of adjusted values without tools ■ Recessed pushbutton and keylock for secure programming ■ Permanent display of temperature unit (°C, °F, K, Ohm) ■ Temperature peak memory ■ 4-wire technology IO-Link	
TS-516-LI2UPN8X-H1141-L050	–	Ident-No. 6840028
	Temperature measurement with current output and PNP/NPN transistor switching output output 2 reprogrammable as switching output ■ Housing is rotatable after plugging the process connection ■ Reading of adjusted values without tools ■ Recessed pushbutton and keylock for secure programming ■ Permanent display of temperature unit (°C, °F, K, Ohm) ■ Temperature peak memory ■ 4-wire technology IO-Link	

Sensor Technology – Inductive Coupler

NICS-M30-IOL2P8-0.3-RKC4.4T	–	Ident-No. 4300301
	Inductive coupler Secondary side ■ Threaded barrel, M30 x 1.5 ■ Chrome-plated brass ■ DC 4-wire, 24 VDC ■ 2 x PNP input ■ Pigtail with female end M12 x 1 ■ IO-Link transmission Cable length 0.3 m	
NICP-M30-8P8-0.3-RSC12T	–	Ident-No. 4300201
	Inductive coupler Primary Side ■ Threaded barrel, M30 x 1.5 ■ Chrome-plated brass ■ DC 4-wire, 24 VDC ■ 8 x PNP output ■ Pigtail with male end M12 x 1 ■ Status bit for identification of secondary component ■ Diagnosis bit for the identification of foreign objects Cable length 0.3 m	
NICP-M30-IOL2P8X-H1141	–	Ident-No. 4300101
	Inductive coupler Primary Side ■ Threaded barrel, M30 x 1.5 ■ Chrome-plated brass ■ DC 4-wire, 24 VDC ■ 2 x PNP output ■ Male, M12 x 1 ■ IO-Link transmission	
TBIL-M1-16DXP	–	Ident-No. 6814102
	I/O hub for connection of digital signals to IO-Link master 16 universal digital channels, PNP ■ Rugged, fully potted I/O hub in IP67 ■ IO-Link diagnostics for short-circuit and supply voltage ■ 2 universal digital channels per port ■ Metal connector Ask P. Müller/D. Green (Standards)	

Sensor Technology – Accessories

SMB18AFAM10	–	Ident-No. 3012558
	mounting accessories mounting bracket ■ Mounting bracket ■ Cold-rolled steel ■ For 18 mm thread ■ M10 x 1.5 thread	
SMB30SC	–	Ident-No. 3052521
	mounting accessories mounting bracket ■ Mounting bracket ■ Plastic, black ■ For 30 mm thread ■ You need 2 M7 nuts, key metrics 11 for wall installation as well as 2 M7 screws; not included in the delivery	
SMB3018SC	–	Ident-No. 3053952
	mounting accessories mounting bracket ■ Mounting bracket ■ Plastic, black ■ For 18 mm thread	
SMB18A	–	Ident-No. 3033200
	mounting accessories mounting bracket ■ Mounting bracket ■ M18 ■ Stainless steel	
SMB30A	–	Ident-No. 3032723
	mounting accessories mounting bracket ■ M30 feedthrough ■ For sensors with 30 mm thread	
PN-M12	–	Ident-No. 6905309
	screw cap for threaded barrel sensors ■ Screw cap nut for flush sensors of the uprox+ family ■ for M12 x 1 threaded barrel sensor ■ stainless steel A2 1.4305 (AISI 303)	

PN-M18	–	Ident-No. 6905310
	screw cap for threaded barrel sensors ■ Protective nut for flush mountable uprox+ sensors ■ for M18 x 1 threaded barrel sensor ■ Stainless steel A2 1.4305 (AISI 303)	
PN-M30	–	Ident-No. 6905308
	screw cap for threaded barrel sensors ■ Protective nut for flush mountable uprox+ sensors ■ for M30 x 1.5 threaded barrel sensors ■ Stainless steel A2 1.4305 (AISI 303)	

Identification – Read/write Head

TNLR-Q80-H1147	–	Ident-No. 7030230
	Read/Write Head ■ Rectangular, height 40 mm ■ Active face on top ■ Plastic, PBT-GF30-VO	
TNSLR-Q80WD-H1147	–	Ident-No. 7030418
	Read/Write Head ■ Rectangular, height 40 mm ■ Active face on top ■ Plastic, PPS-GF30	
TNSLR-Q42TWD-H1147	–	Ident-No. 7030424
	Read/Write Head ■ Rectangular, height 42.5 mm ■ Active face on top ■ Plastic, PA12-GF30	
RK4.5T-5-RS4.5T/S2500	–	Ident-No. 6699201
	BL ident Cable Standard Version ■ 4-core, AWG 24/AWG 22 ■ Jacket material: PUR, color: yellow ■ Halogen- and LABS-free ■ Shield: Aluminum foil, tinned copper braid ■ Jacket diameter: 6.4 mm ■ Suitable for drag chain use, oil-resistant, highly flexible ■ Cable UL Style 20963 ■ Cable length: 5.0 m	

Identification – Data Carrier HF/UHF

TW-R50-K2	–	Ident-No. 6900507
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■ FRAM memory 2 kB



DS-R50	–	Ident-No. 6900386
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Accessories
The spacer enables indirect mounting of data carriers on metal.



Identification – Interface

BL67-GW-EN	–	Ident-No. 6827214
	Gateway for BL67 I/O system multiprotocol interface for Ethernet ■ 3 decimal rotary coding switches ■ Protection class IP67 ■ Multiprotocol interface between the BL67 system and the Ethernet protocols Modbus TCP, EtherNet/IP and PROFINET ■ PROFINET supports fast start-up (FSU) ■ EtherNet/IP supports QuickConnect (QC) ■ Integrated switch 10/100 Mbps ■ Two female M12, 4-pin, D-coded, for fieldbus connection (from VN 03-00) ■ One male 7/8", 5-pin, for power supply ■ LEDs for display of supply voltage, group and bus errors	
BL67-2RFID-S	–	Ident-No. 6827305
	Extension Module for I/O Communication BL ident RFID Module for Connection of 2 Read/Write heads (HF/UHF) BL ident ■ A special software (function module) for integration in PLC systems is not required. ■ 8 byte user data per read/write cycle ■ Connection of two <i>BL ident</i> read/write heads ■ Mixed operation of HF and UHF read/write heads ■ Transmission rate: 115.2 kbps ■ Cable length max. 50 m ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers	
BL67-B-2M12	–	Ident-No. 6827186
	BL67 base module Connector, male 2 x M12, 5-pin ■ Passive connection components for sensors and actuators ■ Quick replacement of electronics in wired state ■ Mechanical coding prevents accidental plugging of the wrong electronic module ■ Protection class IP67 ■ 2 slots ■ M12 connection technology ■ 5-pin	

Fieldbus Technology – I/O Module Series "Large"

TBEN-L1-16DIP	–	Ident-No. 6814005
	Compact multiprotocol I/O module for Ethernet 16 Digital PNP Inputs ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M12, 4-pin, D-coded, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ 7/8" connector for power supply, 5-pin ■ Input diagnostics per port	
TBEN-L1-16DOP	–	Ident-No. 6814007
	Compact multiprotocol I/O module for Ethernet 16 Digital PNP Outputs ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M12, 4-pin, D-coded, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ 7/8" connector for power supply, 5-pin ■ Separated power groups for safety shutdown ■ Max. 2 A per output ■ Output diagnostics per channel	
TBEN-L1-8DIP-8DOP	–	Ident-No. 6814006
	Compact multiprotocol I/O module for Ethernet 8 Digital PNP Inputs and 8 Digital PNP Outputs 2 A ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M12, 4-pin, D-coded, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ 7/8" connector for power supply, 5-pin ■ Separated power groups for safety shutdown ■ Input diagnostics per port ■ Max. 2 A per output ■ Output diagnostics per channel	

TBEN-L1-16DXP	–	Ident-No. 6814008
	Compact multiprotocol I/O module for Ethernet 16 Universal Digital Channels, Configurable as PNP Inputs or 2A Outputs ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M12, 4-pin, D-coded, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ 7/8" connector for power supply, 5-pin ■ Separated power groups for safety shutdown ■ Input diagnostics per port ■ Max. 2 A per output ■ Output diagnostics per channel ■ Two freely selectable digital channels per port	
TBEN-L5-8IOL	–	Ident-No. 6814017
	Compact Multiprotocol I/O Module for Ethernet 8 IO-Link Master Channels 4 Universal Digital PNP Channels, 2 A, Channel Diagnostics ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M12, 4-pin, D-coded, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ 7/8" connector for power supply, 5-pin ■ M12 ports for IO-Link master, 5-pin ■ IO-Link master port class A and port class B ■ IO-Link Protocol 1.1 ■ FLC/ARGEE programmable Ask P. Müller/D. Green (Standards)	

Fieldbus Technology – Ethernet Spanner

TBEN-L5-EN1

–

Ident-No. 6814035



Ethernet Spanner

Master to master data exchange, NAT router, 16 digital PNP inputs

- Two separate, electrically isolated Ethernet interfaces
- Bi-directional data exchange between two networks
- Protocol conversion between EtherNet/IP, Modbus TCP and Profinet
- Profinet is supported on P2 Ethernet port
- 1:1 NAT router
- Integrated Ethernet switch
- 10 Mbps/100 Mbps supported
- 2 × M12, 4-pin, D-coded, Ethernet-fieldbus connection
- Glass fiber reinforced housing
- Shock and vibration tested
- Fully potted module electronics
- Protection classes IP65, IP67, IP69K
- 7/8" connector for power supply, 5-pin
- Input diagnostics per port

Fieldbus Technology – I/O-Module for Interbus

FLIB-IOM124-0002 (A2)	–	Ident-No. 6825366
	Compact fieldbus stations for INTERBUS 12 digital pnp inputs 4 digital outputs 2 A ■ Module-related diagnostics ■ For robot applications ■ Robust electromechanics ■ High magnetic field immunity ■ Intelligent terminating resistor Interbus robot module	

Machine Safety – Safety I/O Module

TBIP-L4-FDIO1-2IOL	–	Ident-No. 100000360
	Hybrid Module for EtherNet/IP and CIP-Safety Safe Digital Inputs and Outputs, Standard Universal Digital Channels, IO-Link Master Ports ■ EtherNet/IP ■ Integrated Ethernet switch ■ 10 Mbps / 100 Mbps supported ■ 2 x male M12, 4-pin, D-coded, Ethernet-Fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ 7/8" connector for power supply, 4-pin ■ Two safe digital SIL3-inputs ■ 2 safe digital SIL3 channels as FDI or FDO (PP, PM) ■ 4 non-safe digital I/O channels ■ 2 IO-Link Master V1.1 slots	
VBRS4.4-2RKC4.880T-0.15/0.15/TXL4000	–	Ident-No. 6631286
	For the connection of the LZ-Screen LS series to a C0-C3 safety channel of the TBPn/TBIP module series. Y-splitter with cable, male M12 x 1 - 2 x female M12 x 1 ■ Jacket material: PUR ■ Jacket color: black/yellow ■ Qualified for drag chain use ■ Resistant to welding sparks ■ Resistant to chemicals, UV radiation and oils ■ Flame-retardant ■ Free from halogen, silicone, PVC and LABS ■ RoHS-compliant ■ Protection class IP67 ■ Designed for safety applications ■ Cable length: 0.15 / 0.15 m	
RKC8.704T-2-RSC4.5T/TXY3013	–	Ident-No. 6631289
	Actuator and sensor cables for safety applications. For the connection of the emergency-stop series with red/yellow light and 8-pin connector to a C0-C3 security channel of the TBPn/TBIP module series Extension Cable ■ Female M12, straight, 8-pin ■ Cable length: 2.0 m ■ Sheath material: PUR ■ Sheath color: yellow ■ Qualified for drag chain use ■ Resistant to weld splatter ■ Resistant to chemicals, UV radiation and oils ■ Flame retardant ■ Free from halogen, silicone, PVC and LABS ■ Particularly resistant to abrasion ■ Approval: cULus ■ RoHS conform ■ Protection class IP67 ■ Male M12, straight, 5-pin	

VBRK8-2RSC4.870T-0.15/0.15/TXL4000 –	Ident-No. 6631295
	Industrial splitter for safety applications. For the connection of the emergency-stop series with red/yellow light and 8-pin connector to a C0-C3 security channel of the TBPB/TBIP module series. Second connector to the external switch on the warning light Y-splitter with cable, female M12 x 1 - 2 x male M12 x 1 ■ Jacket material: PUR, Jacket color: black/yellow ■ Qualified for drag chain use ■ Resistant to welding sparks, Resistant to chemicals, UV radiation and oils ■ Flame-retardant ■ Free from halogen, silicone, PVC and LABS ■ RoHS-compliant ■ Protection class IP67 ■ Designed for safety applications ■ Cable length: 0.15 / 0.15 m
RKC8T-2-RSC8T/TXY3013 –	Ident-No. 100000219
	Connection cable for connecting an SSA emergency stop switch, 8-pin via the 6631295 Y-splitter to the hybrid modules TBPB/TBIP Extension Cable ■ Female M12, straight, 8-pin ■ Cable length: 2.0 m ■ Sheath material: PUR ■ Sheath color: yellow ■ Grip color: yellow ■ Qualified for drag chain use ■ Resistant to weld splatter ■ Resistant to chemicals, UV radiation and oils ■ Flame retardant ■ Free from halogen, silicone, PVC and LABS ■ Particularly resistant to abrasion ■ Approval: cULus ■ RoHS-compliant ■ Protection class IP67 ■ Male M12, straight, 8-pin
VBR-TXL4100 –	Ident-No. 6631344
	Industrial splitter for safety applications. For the connection of the LZ-Screen SLS series to a C0-C3 safety channel of the TBPB/TBIP module series Reset via additional connectors Pin 2 Y-splitter with Cable, 2 x M12 x 1 Male - 2 x Female M12 x 1 ■ Jacket material: PUR, Jacket color: black/yellow ■ Qualified for drag chain use ■ Resistant to welding sparks ■ Resistant to chemicals, UV radiation and oils ■ Flame-retardant ■ Free from halogen, silicone, PVC and LABS ■ RoHS-compliant ■ Protection class IP67 ■ Designed for safety applications ■ Cable length: 0.15 / 0.15 m
VBR-TXL4200 –	Ident-No. 6631345
	Industrial splitter for safety applications. For the connection of the LZ-Screen SLP series to a C0-C3 safety channel of the TBPB/TBIP module series Reset via additional connectors Pin 2 Y-splitter with Cable, 2 x M12 x 1 Male - 2 x Female M12 x 1 ■ Jacket material: PUR ■ Jacket color: black/yellow ■ Qualified for drag chain use ■ Resistant to welding sparks ■ Resistant to chemicals, UV radiation and oils ■ Flame-retardant ■ Free from halogen, silicone, PVC and LABS ■ RoHS-compliant ■ Protection class IP67 ■ Designed for safety applications ■ Cable length: 0.15 / 0.15 m

Fieldbus Technology – I/O Module Series "Small"

TBEN-S1-8DIP	–	Ident-No. 6814020
	Compact Multiprotocol I/O Module for Ethernet 8 Digital PNP Inputs, Input Diagnostics per Group ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M8, 4-pin, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ Male M8, 4-pin, for power supply ■ Input diagnostics by group ■ FLC/ARGEE programmable only for robot end-of-arm tooling	
TBEN-S1-4DIP-4DOP	–	Ident-No. 6814021
	Compact Multiprotocol I/O Module for Ethernet 4 Digital PNP Inputs and 4 Digital PNP Outputs 2 A ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M8, 4-pin, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ M8 connector for power supply, 4-pin ■ Separated power groups for safety shutdown ■ Input diagnostics by group ■ Max. 2 A per output ■ Output diagnostics per channel ■ FLC/ARGEE programmable only for robot end-of-arm tooling	
TBEN-S1-8DOP	–	Ident-No. 6814022
	Compact Multiprotocol I/O Module for Ethernet 8 Digital PNP Outputs 0.5 A only for robot end-of-arm tooling	

TBEN-S1-8DXP	–	Ident-No. 6814023
	Compact Multiprotocol I/O Module for Ethernet 8 Universal Digital Channels, Configurable as PNP Inputs or 0.5A Outputs ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M8, 4-pin, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ M8 connector for power supply, 4-pin ■ Separated power groups for safety shutdown ■ Input diagnostics by group ■ One freely selectable digital channel per port ■ Max. 0.5A per output ■ Output diagnostics per channel ■ FLC/ARGEE programmable only for robot end-of-arm tooling	
TBEN-S2-4IOL	–	Ident-No. 6814024
	Compact Multiprotocol I/O Module for Ethernet 4 IO-Link Master Channels 4 Universal Digital PNP Channels, 0.5 A, Channel Diagnostics ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M8, 4-pin, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ M8 connector for power supply, 4-pin ■ Separated power groups for safety shutdown ■ M12 ports for IO-Link master, 5-pin ■ IO-Link Protocol 1.1 ■ FLC/ARGEE programmable Ask P. Müller/D. Green (Standards)	

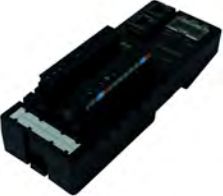
Fieldbus Technology – Modular I/O System in IP67

BL67-GW-EN	–	Ident-No. 6827214
	Gateway for BL67 I/O system multiprotocol interface for Ethernet ■ 3 decimal rotary coding switches ■ Protection class IP67 ■ Multiprotocol interface between the BL67 system and the Ethernet protocols Modbus TCP, EtherNet/IP and PROFINET ■ PROFINET supports fast start-up (FSU) ■ EtherNet/IP supports QuickConnect (QC) ■ Integrated switch 10/100 Mbps ■ Two female M12, 4-pin, D-coded, for fieldbus connection (from VN 03-00) ■ One male 7/8", 5-pin, for power supply ■ LEDs for display of supply voltage, group and bus errors	
BL67-4DI-P	–	Ident-No. 6827171
	BL67 electronic module 4 digital inputs, PNP ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ 4 digital inputs, 24 VDC ■ PNP switching ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers	
BL67-8DI-P	–	Ident-No. 6827170
	BL67 electronic module 8 digital inputs, PNP ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ 8 digital inputs, 24 VDC ■ PNP switching ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers	
BL67-4DO-2A-P	–	Ident-No. 6827174
	BL67 electronic module 4 digital outputs, PNP, 2.0 A ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ 4 digital outputs, 24 VDC ■ Max. 2 A ■ PNP switching ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers	
BL67-8DO-0.5A-P	–	Ident-No. 6827172
	BL67 electronic module 8 digital outputs, PNP, 0.5 A ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ 8 digital outputs, 24 VDC ■ Max. 0.5 A ■ PNP switching ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers	

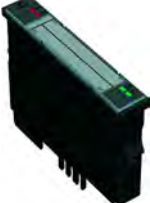
BL67-16DO-0.1A-P	–	Ident-No. 6827221
	BL67 electronic module 16 digital outputs, PNP, 0.1 A ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ 16 digital outputs, 24 VDC ■ 0.1A nominal current ■ I_{max} = 180 mA per channel with 50% simultaneity of the 16 channels ■ PNP ■ Channel diagnostics ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers	
BL67-8XSG-P	–	Ident-No. 6827310
	BL67 electronic module 8 configurable digital channels, PNP, 0.5 A ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ 8 configurable digital channels ■ 24 VDC, PNP ■ Max. 0.5 A ■ Adjustable filter times ■ Invertible inputs ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers	
BL67-4IOL	–	Ident-No. 6827386
	BL67 electronic module 4 IO-Link master channels 4 configurable digital channels, PNP, channel diagnostics, 0.5 A ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ 4 IO-Link master acc. to specification V1.1 ■ 4 universal digital channels, PNP, channel diagnostics, 0.5 A ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers	
BL67-PF-24VDC	–	Ident-No. 6827182
	BL67 electronic module Power feeding module with diagnostics function ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ Supplies field with 24 VDC nominal voltage ■ LEDs indicating system status, field supply and diagnostic information ■ Can be used to form potential groups	
BL67-E	–	Ident-No. 6827347
	BL67 electronic module Dummy module / blind cover ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ Dummy module for unused slots ■ Combinable with all base modules (M8, M12 & M23)	

BL67-B-2M12-P	–	Ident-No. 6827194
	BL67 base module 1 x M12 connector, 5-pole, paired ■ Passive connection components for sensors and actuators ■ Quick replacement of electronics in wired state ■ Mechanical coding prevents accidental plugging of the wrong electronic module ■ Protection class IP67 ■ 2 slots ■ Pairwise assignment ■ M12 connection technology ■ 5-pin	
BL67-B-4M12-P	–	Ident-No. 6827195
	BL67 base module 4 x M12 connector, 5-pole, paired ■ Passive connection components for sensors and actuators ■ Quick replacement of electronics in wired state ■ Mechanical coding prevents accidental plugging of the wrong electronic module ■ Protection class IP67 ■ 4 slots ■ Pairwise assignment ■ M12 connection technology ■ 5-pin	
BL67-B-1M23-19	–	Ident-No. 6827216
	BL67 base module, only for the BL67-16DO-0.1A-P 1 x M23 connector, 19-pole ■ Passive connection components for sensors and actuators ■ Quick replacement of electronics in wired state ■ Mechanical coding prevents accidental plugging of the wrong electronic module ■ Protection class IP67 ■ 1 port ■ M23 connection technology ■ 19-pin	
BL67-B-1M23	–	Ident-No. 6827213
	BL67 base module 1 x M23 connector, 12-pole ■ Passive connection components for sensors and actuators ■ Quick replacement of electronics in wired state ■ Mechanical coding prevents accidental plugging of the wrong electronic module ■ Protection class IP67 ■ 1 port ■ M23 connection technology ■ 12-pin	
BL67-B-1RSM	–	Ident-No. 6827190
	BL67 base module 1 x 7/8" connector, 5-pole ■ Passive connection components for power feeding module ■ Quick replacement of electronics in wired state ■ Mechanical coding prevents accidental plugging of the wrong electronic module ■ Protection class IP67 ■ 1 port ■ 7/8" connection technology ■ 5-pin ■ Sensor supply ■ Field resp. load voltage supply	

Fieldbus Technology – I/O Modules in IP20

FEN20-16DXP	–	Ident-No. 6931089
	Compact IP20 multiprotocol Ethernet I/O module 16 universal digital channels ■ EtherNet/IP slave ■ Modbus TCP slave ■ PROFINET slave ■ 2 RJ45 ports for the Ethernet connection ■ Integrated Ethernet switch ■ 10/100 Mbps ■ 16 universal digital channels, DI / DO ■ 24 VDC, PNP ■ Output current: 1.0 A	
FEN20-4DIP-4DXP	–	Ident-No. 6931090
	Compact IP20 multiprotocol Ethernet I/O module 4 digital inputs, 4 universal digital channels ■ EtherNet/IP slave ■ Modbus TCP slave ■ PROFINET slave ■ 2 RJ45 ports for the Ethernet connection ■ Integrated Ethernet switch ■ 10/100 Mbps ■ 4 digital inputs ■ 4 universal digital channels, DI / DO ■ 24 VDC, PNP ■ Output current: 1.0 A	

Fieldbus Technology – Modular I/O System in IP20

BL20-E-GW-EN	–	Ident-No. 6827329
	Multiprotocol interface for Ethernet ■ Protection class IP20 ■ 2 x end brackets BL20-WEW35/2-SW ■ 1 x end plate BL20-ABPL ■ Multiprotocol gateway between the BL20 system and the Ethernet protocols Modbus TCP, EtherNet/IP and PROFINET (from VN 03-00) ■ PROFINET supports fast start-up (FSU) ■ EtherNet/IP supports QuickConnect (QC) ■ Integrated switch 10/100 Mbps ■ Two RJ45 ports for fieldbus connection ■ Push-in terminals for connection of power supply ■ LEDs for display of supply voltage, group and bus errors	
BL20-E-8DI-24VDC-P	–	Ident-No. 6827227
	BL20 Economy Module 8 digital inputs ■ Fieldbus-independent ■ Electronics and connection technology in one housing ■ Connectivity: Push-in terminals ■ Protection class IP20 ■ 8 digital inputs, 24 VDC, PNP switching	
BL20-E-8DO-24VDC-0.5A-P	–	Ident-No. 6827226
	BL20 Economy Module 8 Digital Outputs ■ Fieldbus-independent ■ Electronics and connection technology in one housing ■ Connectivity: Push-in terminals ■ Protection class IP20 ■ 8 digital outputs, 24 VDC, max. 0.5 A, PNP switching	
BL20-PF-24VDC-D	–	Ident-No. 6827007
	BL20 electronic module Power feeding module with diagnostics function ■ Fieldbus and connection technology independent ■ Protection class IP20 ■ Supplies field with 24 VDC nominal voltage ■ LEDs indicating system status, field supply and diagnostic information ■ Can be used to form potential groups	
BL20-P4T-SBBC	–	Ident-No. 6827038
	BL20 base module Tension spring connection ■ Passive connection components for sensors and actuators ■ Quick replacement of electronics in wired state ■ Mechanical coding prevents plugging of wrong electronic module ■ Protection class IP20 ■ Access to C rail ■ Tension spring connection ■ Disc design	

Fieldbus Technology – Managed Switch

SE-44M-E924

–

Ident-No. U3-00775



Industrial Ethernet

Managed switch

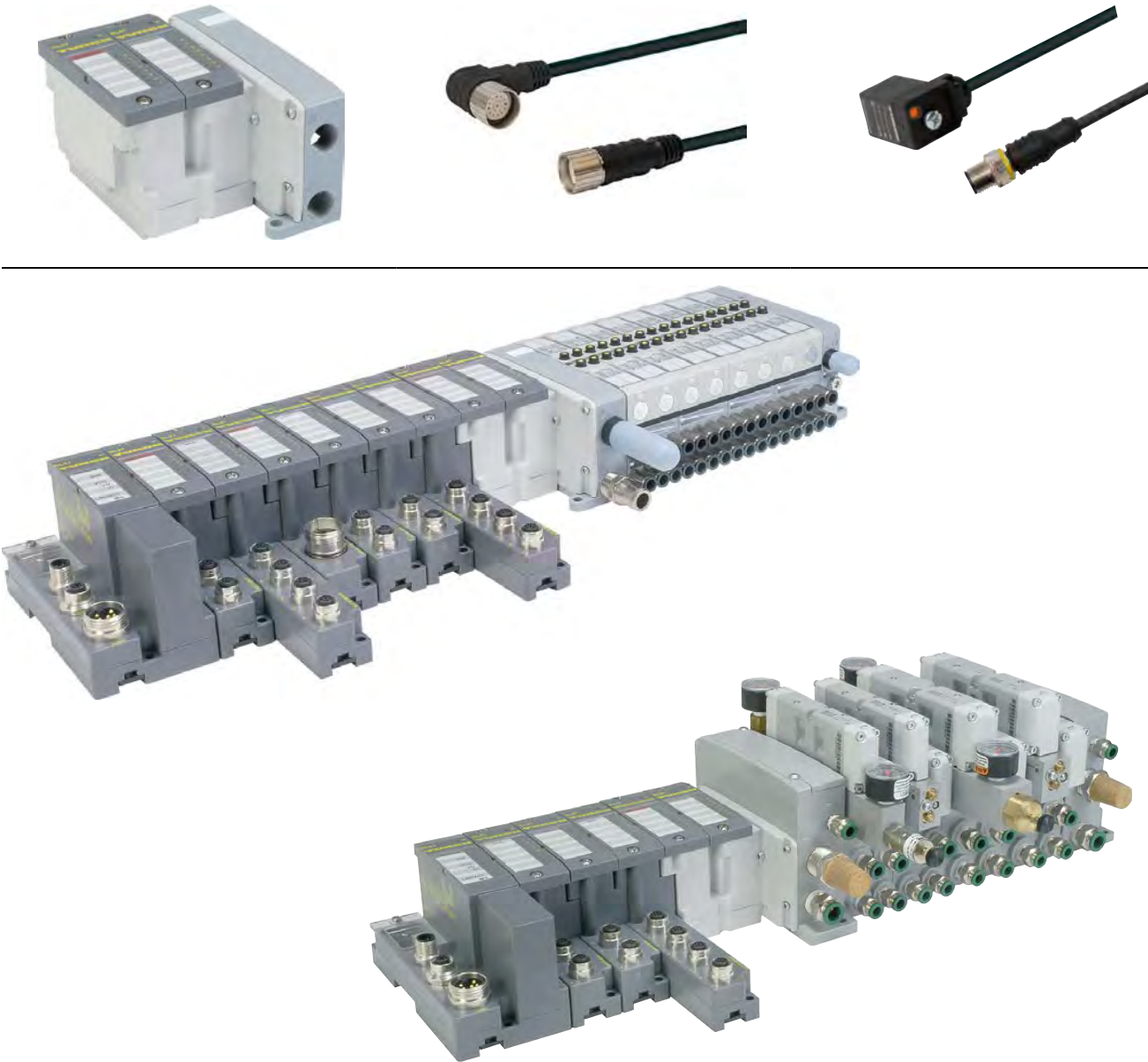
- 10/100 MBit/s
- Auto-Negotiation, 10/100M, half/full duplex
- Auto-Crossing, Auto-Polarity
- Auto-Adressierung, Alterung und Migration
- Store and Forward Datenübertragung
- IEEE 802.3, 802.3u, 802.3x, 802.3D/w, 802.3p, 802.3Q
- Power supply: 5-pin, 7/8"
- Protection class: IP67
- 8 ports + 1 RS232 configuration port
- Ethernet connection: 4-pin, M12 D-coded
- Real-Time-Ring or Rapid Spanning Tree (RSTP)
- SNMPv1 and v2 network management
- SNMPv3 authentication & encryption for security
- SNMP notifications
- IGMP for multicast filtering (snooping and querying)
- Broadcast and multicast storm protection
- RMON and port mirroring
- Security with HTTPS, SSL, SSH, SNMPv3
- Easy configuration via web

Fieldbus Technology – BL67 Gateway to Parker Valve

Valve Connection with Turck BL67 for EtherNet/IP

- Only one EtherNet/IP address necessary for more valve manifolds
- Integrated switch
- Quick Connect functionality

BL67 and Parker Valve Adapter	BL67 Multipole Connection	BL67 Single Point Connection
Connection to valve adapter: BL67-16DO-0.1A-P	BL67-16DO-0.1A-P with BL67-1M23-12	Connection to valve adapter: BL67-4DO-2A-P BL67-8DO-0,5-P
For 16 or 32 outputs on valve adapter	Connection to external valve devices all brands via premoulded 19-pin Turck cable, different cable lengths available	Single connection via Turck sensor-actor cordsets to ISO valves all brands



Connectivity – Cables and Flanges Ethernet

RSSD-RSSD-4416-*M	–
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ M12 male, straight, D-coded ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant ■ M12 male, straight
RSSD-RJ45S-4416-*M	–
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ M12 male, straight, D-coded ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant ■ RJ45 male connector, straight, 4-pin
RJ45S-RJ45S-4416-*M	–
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ RJ45 male connector, straight, 4-pin ■ Cable length: * m ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant ■ RJ45 male connector, straight, 4-pin

RJ45S-FKSDD-4416-*M	–
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ RJ45 male connector, straight, 4-pin ■ Cable length: * m ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant ■ M12 female flange, straight
PSGS4M-PSGS4M-4416-*M	–
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ M8 male connector, straight ■ Cable length: * m ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant ■ M8 male connector, straight
PSGS4M-RJ45S-4416-*M	–
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ M8 male connector, straight ■ Cable length: * m ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant ■ RJ45 male connector, straight, 4-pin

RSSD-PSGS4M-4416-*M	–
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ M12 male, straight, D-coded ■ Cable length: * m ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant ■ M8 male connector, straight
RSS-RSS-841-*M	–
	Industrial Ethernet Cable TPE Cable Jacket ■ Ethernet cable: 8-pin, AWG 24, shielded ■ Jacket material: TPE, color: green ■ Jacket diameter: 7.7 mm ■ Suitable for drag chain use ■ UL approval ■ Cable length: * m ■ M12 male, straight, 8-pin ■ M12 male, straight, 8-pin
RSS-RJ45S-841-*M	–
	Industrial Ethernet Cable TPE Cable Jacket ■ Ethernet cable: 8-pin, AWG 24, shielded ■ Jacket material: TPE, color: green ■ Jacket diameter: 7.7 mm ■ Suitable for drag chain use ■ UL approval ■ Cable length: * m ■ M12 male, straight, 8-pin ■ RJ45 male connector, straight, 8-pin
RJ45S-RJ45S-841-*M	–
	Industrial Ethernet Cable TPE Cable Jacket ■ Ethernet cable: 8-pin, AWG 24, shielded ■ Jacket material: TPE, color: green ■ Jacket diameter: 7.7 mm ■ Suitable for drag chain use ■ UL approval ■ Cable length: * m ■ RJ45 connector ■ RJ45 male connector, straight, 8-pin

Connectivity – Bulk Cable Ethernet

CABLE4416-100M	–	Ident-No. 6441600
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ Cable length: 100 m ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant	
CABLE4416-500M	–	Ident-No. 6441601
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ Cable length: 500 m ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant	
CABLE4416-1000M	–	Ident-No. 100000968
	Industrial Ethernet/PROFINET Cable PUR Cable Jacket ■ Cable length: 1000 m ■ Ethernet cable: 4-pin, AWG 22 ■ CAT 5E ■ Jacket material: PUR ■ Jacket color: green ■ Shield: Aluminum foil overlapped, tinned copper wire ■ Jacket diameter: 6.5 mm ■ Oil resistant acc. to IEC 60811-2-1 and UL13 ■ Free from halogen acc. to IEC 60754 ■ Flame-retardant acc. to IEC 60332-1-2 and UL2556 VW1 ■ RoHS-compliant	

Connectivity – Accessories

TORQUE-WRENCH-SET-BUS	–	Ident-No. 6936171
	Accessories for actuator/sensor cables Set of torque wrenches Turck Line + BUS ■ 1 × grip with adjustable torque 0.4...1.0 Nm ■ 1 × torque setting tool ■ 1 × fork wrench for M8 (SW9) ■ SW9 for all cables with M8 female or male connectors and both brass and stainless steel nuts ■ 1 × fork wrench for M12 bus (SW13) ■ SW13 for bus cables and cables with the designation AL-W*, which serve as an M12 female or male connector and feature a brass nut ■ 1 × fork wrench for M12 (SW14) ■ SW14 for sensor and actuator cables with M12 female or male connectors and both brass and stainless steel nuts	
BEFESTIGUNGSCLIP M8	–	Ident-No. 8047658
	Accessories for actuator/sensor cables M8 mounting clip ■ Material: Plastic, POM ■ Color: black	
BEFESTIGUNGSCLIP M12 / 10pcs.	–	Ident-No. 8053527
	Accessories for actuator/sensor cables Mounting clip for M12 male connector ■ Material: Plastic, POM ■ Color: Black	
S89/VB2-BEFESTIGUNGSSET	–	Ident-No. 6936048
	Accessories for actuator/sensor cables Assembly Kit for PROFIBUS/CAN/Sensor Y piece Packaging unit: 2 sets incl. 2 mounting screws.	

Connectivity – Available Stock Ethernet Cordsets

M12 to M12: RSSD-RSSD-4416-xM

Ident No.	Type	Stock Item
6441647	RSSD-RSSD-4416-0.3M	
6441648	RSSD-RSSD-4416-0.5M	✓
6441649	RSSD-RSSD-4416-0.6M	
6441650	RSSD-RSSD-4416-1M	✓
6441651	RSSD-RSSD-4416-1.5M	✓
6441652	RSSD-RSSD-4416-2M	✓
6441653	RSSD-RSSD-4416-3M	✓
6441654	RSSD-RSSD-4416-4M	✓
6441655	RSSD-RSSD-4416-5M	✓
6441656	RSSD-RSSD-4416-6M	✓
6441657	RSSD-RSSD-4416-7M	
6441697	RSSD-RSSD-4416-7.5M	
6441658	RSSD-RSSD-4416-8M	
6441659	RSSD-RSSD-4416-10M	✓
6441660	RSSD-RSSD-4416-12M	
6441661	RSSD-RSSD-4416-15M	✓
6441662	RSSD-RSSD-4416-18M	
6441663	RSSD-RSSD-4416-20M	✓
6441664	RSSD-RSSD-4416-22M	
6441696	RSSD-RSSD-4416-23M	
6441665	RSSD-RSSD-4416-25M	✓
6441666	RSSD-RSSD-4416-30M	✓
6441667	RSSD-RSSD-4416-35M	
6441668	RSSD-RSSD-4416-40M	
6441669	RSSD-RSSD-4416-45M	
6441670	RSSD-RSSD-4416-50M	
6441671	RSSD-RSSD-4416-55M	
6441672	RSSD-RSSD-4416-60M	
6441673	RSSD-RSSD-4416-65M	
6441674	RSSD-RSSD-4416-70M	
6441675	RSSD-RSSD-4416-75M	
6441676	RSSD-RSSD-4416-80M	
6441677	RSSD-RSSD-4416-85M	
6441678	RSSD-RSSD-4416-90M	

Connectivity – Available Stock Ethernet Cordsets

M12 to RJ45: RSSD-RJ45S-4416-xM

Ident No.	Type	Stock Item
6441628	RSSD-RJ45S-4416-0.5M	✓
6441629	RSSD-RJ45S-4416-1M	✓
6441630	RSSD-RJ45S-4416-1.5M	✓
6441631	RSSD-RJ45S-4416-2M	✓
6441632	RSSD-RJ45S-4416-3M	✓
100001373	RSSD-RJ45S-4416-4M	✓
6441633	RSSD-RJ45S-4416-5M	✓
6441634	RSSD-RJ45S-4416-6M	✓
6441635	RSSD-RJ45S-4416-7.5M	
6441636	RSSD-RJ45S-4416-8M	
6441637	RSSD-RJ45S-4416-10M	✓
6441638	RSSD-RJ45S-4416-15M	✓
6441639	RSSD-RJ45S-4416-20M	✓
6441640	RSSD-RJ45S-4416-25M	✓
6441641	RSSD-RJ45S-4416-30M	✓
100000163	RSSD-RJ45S-4416-35M	✓
6441642	RSSD-RJ45S-4416-40M	✓
6441643	RSSD-RJ45S-4416-50M	
6441644	RSSD-RJ45S-4416-80M	
6441645	RSSD-RJ45S-4416-90M	
6441646	RSSD-RJ45S-4416-100M	

Connectivity – Available Stock Ethernet Cordsets

RJ45 to RJ45: RJ45-RJ45S-4416-xM

Ident No.	Type	Stock Item
100000806	RJ45S-RJ45S-4416-0.3M	
6441610	RJ45S-RJ45S-4416-0.5M	✓
6441611	RJ45S-RJ45S-4416-1M	✓
6441612	RJ45S-RJ45S-4416-1.5M	✓
6441613	RJ45S-RJ45S-4416-2M	✓
6441614	RJ45S-RJ45S-4416-2.5M	
6441615	RJ45S-RJ45S-4416-3M	✓
100001374	RJ45S-RJ45S-4416-4M	✓
6441616	RJ45S-RJ45S-4416-5M	✓
100001376	RJ45S-RJ45S-4416- 6M	✓
6441617	RJ45S-RJ45S-4416-7M	
6441618	RJ45S-RJ45S-4416-7.5M	
6441619	RJ45S-RJ45S-4416-10M	✓
6441620	RJ45S-RJ45S-4416-15M	✓
6935294	RJ45S-RJ45S-4416-20M	✓
6935295	RJ45S-RJ45S-4416-25M	✓
6441621	RJ45S-RJ45S-4416-30M	✓
100000160	RJ45S-RJ45S-4416-35M	
100000161	RJ45S-RJ45S-4416-40M	
100000162	RJ45S-RJ45S-4416-45M	
6441622	RJ45S-RJ45S-4416-50M	✓

RJ45 to M12 Receptacle: RJ45S-FKSDD-4416-xM

Ident No.	Type	Stock Item
6934027	RJ45S-FKSDD-4416-0.2M	
6441602	RJ45S-FKSDD-4416-0.5M	✓
6441603	RJ45S-FKSDD-4416-1M	✓
6441604	RJ45S-FKSDD-4416-2M	✓
6441605	RJ45S-FKSDD-4416-2.5M	
6441606	RJ45S-FKSDD-4416-3M	
6441607	RJ45S-FKSDD-4416-5M	
6441608	RJ45S-FKSDD-4416-7.5M	
6441609	RJ45S-FKSDD-4416-10M	
6935296	RJ45S-FKSDD-4416-15M	
6935297	RJ45S-FKSDD-4416-20M	
6935298	RJ45S-FKSDD-4416-25M	

Connectivity – Available Stock Ethernet Cordsets

M8 to M8: PSGS4M-PSGS4M-4416-xM

Ident No.	Type	Stock Item
6934032	PSGS4M-PSGS4M-4416-0.5M	
6934033	PSGS4M-PSGS4M-4416-1M	
6934034	PSGS4M-PSGS4M-4416-2M	
6934035	PSGS4M-PSGS4M-4416-5M	
6934036	PSGS4M-PSGS4M-4416-10M	
6935338	PSGS4M-PSGS4M-4416-15M	
6935339	PSGS4M-PSGS4M-4416-20M	
6935340	PSGS4M-PSGS4M-4416-25M	

M8 to RJ45: PSGS4M-RJ45S-4416-xM

Ident No.	Type	Stock Item
6935341	PSGS4M-RJ45S-4416-0.5M	
6935342	PSGS4M-RJ45S-4416-1M	✓
6935343	PSGS4M-RJ45S-4416-2M	
6935344	PSGS4M-RJ45S-4416-5M	
6935345	PSGS4M-RJ45S-4416-10M	
6935346	PSGS4M-RJ45S-4416-15M	
6935347	PSGS4M-RJ45S-4416-20M	
6935348	PSGS4M-RJ45S-4416-25M	

M12 to M8: RDDS-PSGS4M-4416-xM

Ident No.	Type	Stock Item
6935350	RSSD-PSGS4M-4416-1M	
6935351	RSSD-PSGS4M-4416-2M	
6934037	RSSD-PSGS4M-4416-5M	
6935352	RSSD-PSGS4M-4416-10M	
6935353	RSSD-PSGS4M-4416-15M	
6935354	RSSD-PSGS4M-4416-20M	
6935355	RSSD-PSGS4M-4416-25M	

Bulk Cable: CABLE4416-xM

Ident No.	Type	Stock Item
100000968	CABLE4416-1000M	✓
6441600	CABLE4416-100M	✓
6441601	CABLE4416-500M	✓

Connectivity – Accessories Ethernet

FW-M12ST5D-G-SB-ME-SH-8	–	Ident-No. 6604218
	Round connector M12 x 1 male, straight, customizable Approvals: UL ■ For use in Ethernet applications ■ Shielding via iris spring ■ D-coding ■ Metal housing ■ 4-pin ■ Screw-clamp terminal	
FW-M12KU5D-G-SB-ME-SH-8	–	Ident-No. 6604219
	Round connector M12 x 1 Female, straight, customizable Approvals: UL ■ For use in Ethernet applications ■ Shielding via iris spring ■ D-coding ■ Metal housing ■ 4-pin ■ Screw-clamp terminal	
BIC-44-E424	–	Ident-No. U3-00003
	Accessories for Fieldbus Systems Wall/panel feed-through ■ For Industrial Ethernet ■ RJ45 on M12 x 1, 4-port ■ 4-pin ■ Voltage: 125 V ■ Ampacity: 1.5 A ■ Temperature: -30 °C...+75 °C ■ D-coding ■ Protection class: IP20/67	
FKSDD RJ45SF 44	–	Ident-No. U3-00647
	Accessories for Fieldbus Systems Wall/panel feed-through ■ For Industrial Ethernet ■ RJ45 on M12 x 1, 4-pin ■ Admissible wall thickness: 1.5...3 mm ■ Mounting thread: M16 x 1, 8-pin ■ D-coding ■ Voltage: 42 V ■ Ampacity: 1.5 A ■ Temperature: -40...+75 °C ■ Protection class: IP20/67 ■ Scope of delivery: Wall feedthrough, seal and nut	
FKSD-FKSD-44	–	Ident-No. 6935264
	Accessories for Fieldbus Systems Ethernet Adapter and Wall Feedthrough M12 Female Connector ■ For Industrial Ethernet ■ M12 x 1 female on M12 x 1 female, 4-pin ■ Mounting thread: M16 x 1.5 ■ D-coding ■ Voltage: 48 V ■ Ampacity: 4 A ■ Temperature: -30...+85 °C ■ Protection class: IP67	

Connectivity – Junction for Multibus

VB2-M23ST-M23KU-RKF50-01	–	Ident-No. 6931776
	Industrial passive junction, 3-fold without cable	
VB2-M23ST-M23KU-RKF50-02	–	Ident-No. 6932156
	Industrial passive junction, 3-fold without cable	
RKM52-*-CSSM-BV16031301	–	
	PUR Cable Jacket, 5-pin ■ Power cable: 5 x 1.5 mm² ■ Jacket material: PUR, color: gray ■ Jacket diameter: 8.5 mm ■ Suitable for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: * m ■ 7/8" female, straight ■ M23 x 1 male connector, straight, potted, 17-pin	
RC-Z2104		Ident-No. 6900285
	Accessories for Fieldbus Systems Closure Cap for M23 Connectors ■ Closure cap ■ M23 female thread	

Connectivity – Cables and Flanges Power 24 V

RKM52-*M	–
	PUR Cable Jacket, 5-pin ■ Power cable: 5 x 1.5 mm ² ■ Jacket material: PUR, color: gray ■ Jacket diameter: 8.5 mm ■ Suitable for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: * m ■ 7/8" female, straight ■ Open end
RSM52-*M	–
	PUR Cable Jacket, 5-pin ■ Power cable: 5 x 1.5 mm ² ■ Jacket material: PUR, color: gray ■ Jacket diameter: 8.5 mm ■ Suitable for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: * m ■ 7/8" male, straight ■ Open end
WKM52-*M	–
	PUR Cable Jacket, 5-pin ■ Power cable: 5 x 1.5 mm ² ■ Jacket material: PUR, color: gray ■ Jacket diameter: 8.5 mm ■ Suitable for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: * m ■ 7/8" female, angled ■ Open end
RKM52-*-RSM52	–
	PUR Cable Jacket, 5-pin ■ Power cable: 5 x 1.5 mm ² ■ Jacket material: PUR, color: gray ■ Jacket diameter: 8.5 mm ■ Suitable for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: * m ■ 7/8" female, straight ■ 7/8" male, straight
WKM52-*-WSM52	–
	PUR Cable Jacket, 5-pin ■ Power cable: 5 x 1.5 mm ² ■ Jacket material: PUR, color: gray ■ Jacket diameter: 8.5 mm ■ Suitable for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: * m ■ 7/8" female, angled ■ 7/8" male, angled

RSF RKF 57/22	–	Ident-No. U2309-6
	Accessories for Fieldbus Systems Wall/panel feed-through	
	■ Type: 7/8" adapter ■ 5-pin feedthrough male/female connector ■ For use in CAN (DeviceNet, CANopen) applications ■ Ampacity: 9 A ■ Rated voltage: 600 V ■ Temperature range: -40 °C...+105 °C ■ Protection class: NEMA 1, 3, 4 and IEC IP67	
RSF 57	–	Ident-No. U5220-0
	■ Type: 7/8" ■ Male connector, 5-pin	
	■ For use in CAN (DeviceNet, CANopen) applications ■ Ampacity: 9 A ■ Rated voltage: 300 V ■ Temperature range: -40 °C...+80 °C ■ Protection class: NEMA 1, 3, 4, 6, 13 and IEC IP67	
RKF 57	–	Ident-No. U5514-1
	■ Type: 7/8" ■ Female connector, 5-pin	
	■ For use in CAN (DeviceNet, CANopen) applications ■ Ampacity: 9 A ■ Rated voltage: 300 V ■ Temperature range: -40 °C...+80 °C ■ Protection class: NEMA 1, 3, 4, 6, 13 and IEC IP67	
LN1/2-14NPT/10	–	Ident-No. 6961002
	Accessories for Fieldbus Systems 1/2" counter nut for NPT thread	
	■ 1/2" counter nut for NPT-thread ■ Material: Die-cast zinc	
LOCKNUT G1/2"	–	Ident-No. 6900493
	Accessories for Fieldbus Systems 1/2" counter nut for G thread, standard pack 100 pcs.	
	■ 1/2" counter nut for G-thread	
B4151-0/9	–	Ident-No. 6904717
	7/8" Round Connector Female, straight, customizable	
	■ For use in DeviceNet/CANopen applications ■ Metal coupling nut ■ UL approval ■ 5-pin ■ Screw-clamp terminal	

BS4151-0/9	–	Ident-No. 6904718
	7/8" Round Connector male, straight, customizable ■ Metal coupling nut ■ UL approval ■ 5-pin ■ Screw-clamp terminal	
B4251-0/9	–	Ident-No. 6901113
	7/8" Round Connector Field-wireable Female Connector, Angled ■ For use in DeviceNet/CANopen applications ■ Metal coupling nut ■ UL approval ■ 5-pin ■ Screw-clamp terminal	
BS4251-0/9	–	Ident-No. 6901112
	7/8" Round Connector male, angled, customizable ■ For use in DeviceNet/CANopen applications ■ 5-pin ■ Screw-clamp terminal	
Cable-PDP-52-100M	–	Ident-No. 6604716
	PUR Cable Jacket, 5-pin ■ Power cable: 5 x 1.5 mm² ■ Jacket material: PUR, color: gray ■ Jacket diameter: 8.5 mm ■ Suitable for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: 100 m ■ Open end	
Cable-PDP-52-500M	–	Ident-No. 6604717
	PUR Cable Jacket, 5-pin ■ Power cable: 5 x 1.5 mm² ■ Jacket material: PUR, color: gray ■ Jacket diameter: 8.5 mm ■ Suitable for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: 500 m ■ Open end ■ Open end	
RC-Z2104		Ident-No. 6900285
	Accessories for Fieldbus Systems Closure Cap for M23 Connectors ■ Closure cap ■ M23 female thread	

RSM 40-RKM 50-RKM 40/CS16131	–	Ident-No. U2-29562
	2-port Junction Systems T-Splitter without Cable ■ 7/8" ■ Male - female - female, 4/ 5/ 4-pin ■ Protection class IP67	
RSM 50-RKM 40-RKM 50/CS16132	–	Ident-No. U2-29563
	2-port Junction Systems T-Splitter without Cable ■ 7/8" ■ Male - female - female, 5/ 4/ 5-pin ■ Protection class IP67	

Connectivity – Available Stock Power Cordsets

7/8" f to 7/8" m: RKM52-x-RSM52

Ident No.	Type	Stock Item
6604743	RKM52-0.3-RSM52	✓
6914148	RKM52-0.5-RSM52	
6914149	RKM52-1-RSM52	✓
6914150	RKM52-2-RSM52	✓
6604749	RKM52-3-RSM52	
6914151	RKM52-4-RSM52	✓
6604751	RKM52-5-RSM52	
6914152	RKM52-6-RSM52	✓
6915906	RKM52-7-RSM52	
6604709	RKM52-8-RSM52	✓
6914153	RKM52-10-RSM52	✓
6914101	RKM52-12-RSM52	
6914154	RKM52-15-RSM53	
6604756	RKM52-20-RSM52	✓
6604757	RKM52-25-RSM52	
6914306	RKM52-30-RSM52	
6914202	RKM52-35-RSM53	
6914068	RKM52-50-RSM54	

7/8" f to Open End: RKM52-x

Ident No.	Type	Stock Item
6604710	RKM52-1M	
6604711	RKM52-2M	✓
6604714	RKM52-4M	
6604715	RKM52-5M	
6914145	RKM52-6M	✓
6603782	RKM52-7M	
6604718	RKM52-8M	
6914147	RKM52-15M	
6604720	RKM52-20M	✓
6604722	RKM52-30	✓

Connectivity – Cables and Flanges M23

CSM CKM 19-19-0.6/S101	–	Ident-No. U-20414
	Actuator and Sensor Cable, TPE M23 Extension Cable ■ M23 male connector, straight, 19-pin ■ Cable length: 0.6 m ■ Sheath material: TPE ■ Sheath color: yellow ■ Qualified for drag chain use ■ Flame retardant acc. to FT1 ■ Approval: UL and CSA ■ RoHS-compliant ■ Protection class IP67 ■ M23 female connector, straight, 19-pin	
CSM CKM 19-19-1/S101	–	Ident-No. U0938-61
	Actuator and Sensor Cable, TPE M23 Extension Cable ■ M23 male connector, straight, 19-pin ■ Cable length: 1.0 m ■ Sheath material: TPE ■ Sheath color: yellow ■ Qualified for drag chain use ■ Flame retardant acc. to FT1 ■ Approval: UL and CSA ■ RoHS-compliant ■ Protection class IP67 ■ M23 female connector, straight, 19-pin	
CSM CKM 19-19-3/S101	–	Ident-No. U4707-54
	Actuator and Sensor Cable, TPE M23 Extension Cable ■ M23 male connector, straight, 19-pin ■ Cable length: 3 m ■ Sheath material: TPE ■ Sheath color: yellow ■ Qualified for drag chain use ■ Flame retardant acc. to FT1 ■ Approval: UL and CSA ■ RoHS-compliant ■ Protection class IP67 ■ M23 female connector, straight, 19-pin	
CSM CKM 19-19-5/S101	–	Ident-No. U0938-02
	Actuator and Sensor Cable, TPE M23 Extension Cable ■ M23 male connector, straight, 19-pin ■ Cable length: 5.0 m ■ Sheath material: TPE ■ Sheath color: yellow ■ Qualified for drag chain use ■ Flame retardant acc. to FT1 ■ Approval: UL and CSA ■ RoHS-compliant ■ Protection class IP67 ■ M23 female connector, straight, 19-pin	

Connectivity – Cables and Flanges Sensor-Actuator

RKC4.4T-*.RSC4.4T/TXL	–
	Actuator and Sensor Cable, PUR Extension Cable ■ Female M12, straight, 4-pin ■ Cable length: * m ■ Sheath material: PUR ■ Sheath color: black ■ Qualified for drag chain use ■ Resistant to weld splatter ■ Resistant to chemicals, UV radiation and oils ■ Flame retardant ■ Free from halogen, silicone, PVC and LABS ■ Particularly resistant to abrasion ■ Approval: cULus ■ RoHS conform ■ Protection class IP67 ■ Male M12, straight, 4-pin
WKC4.4T-P7X2-*.RSC4.4T/TXL	–
	Actuator and Sensor Cable, PUR Extension Cable ■ Female M12, angled, 4-pin ■ With 2-color LED (PNP, yellow, green) ■ Cable length: * m ■ Sheath material: PUR ■ Sheath color: black ■ Qualified for drag chain use ■ Resistant to weld splatter ■ Resistant to chemicals, UV radiation and oils ■ Flame retardant ■ Free from halogen, silicone, PVC and LABS ■ Particularly resistant to abrasion ■ Approval: cULus ■ RoHS conform ■ Protection class IP67 ■ Male M12, straight, 4-pin
RKC4.5T-*.RSC4.5T/TXL1001	–
	Weld-Splatter Resistant Actuator and Sensor Cable Extension Cable ■ Female M12, straight, 5-pin ■ Cable length: * m ■ Jacket material: PUR jacketed with aramid ■ Jacket color: yellow ■ Resistant to welding sparks ■ Flame-retardant ■ Resistant to chemicals, UV radiation and oils ■ Free from halogen, silicone, PVC and LABS ■ RoHS-compliant ■ Protection class IP67 ■ Protective jacket material: Aramid fibers ■ Tensile strength: 2923 MPa ■ Breaking strength: 333 N ■ Elongation at break: 3.6% ■ Temperature peaks: up to +200 °C ■ Male M12, straight, 5-pin

WKC4.5T-*-RSC4.5T/TXL1001

–



Weld-Splatter Resistant Actuator and Sensor Cable
Extension Cable

- Female M12, angled, 5-pin
- Cable length: * m
- Jacket material: PUR jacketed with aramid
- Jacket color: yellow
- Resistant to welding sparks
- Flame-retardant
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- RoHS-compliant
- Protection class IP67
- Protective jacket material: Aramid fibers
 - Tensile strength: 2923 MPa
 - Breaking strength: 333 N
 - Elongation at break: 3.6%
 - Temperature peaks: up to +200 °C
- Male M12, straight, 5-pin

RKC4T-*-PSG3M/TXL

–



Actuator and Sensor Cable, PUR
Extension Cable

- Female M12, straight, 3-pin
- Cable length: * m
- Sheath material: PUR
- Sheath color: black
- Qualified for drag chain use
- Resistant to weld splatter
- Resistant to chemicals, UV radiation and oils
- Flame retardant
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Approval: cULus
- RoHS conform
- Protection class IP67
- Male M8, straight, 3-pin

WKC4T-P7X2-*-PSG3M/TXL

–



Actuator and Sensor Cable, PUR
Extension Cable

- Female M12, angled, 3-pin
- With 2-color LED (PNP, yellow, green)
- Cable length: * m
- Sheath material: PUR
- Sheath color: black
- Qualified for drag chain use
- Resistant to weld splatter
- Resistant to chemicals, UV radiation and oils
- Flame retardant
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Approval: cULus
- RoHS conform
- Protection class IP67
- Male M8, straight, 3-pin

VAS22-S80E-*-RSC5.31T/TXL

–



Valve connector A type

Extension Cable

- 2-pin + PE
- Design according to the DIN EN 175301-803
- RoHS-compliant
- Protection class: IP65, IP67, IP68
- Protective component: Transil diode
- Cable length: * m
- Sheath material: PUR
- Sheath color: black
- Qualified for drag chain use
- Resistant to weld splatter
- Resistant to chemicals and oils
- UV and ozone resistance
- Flame retardant
- Free from halogen, silicone, PVC and LABS
- M12 male, straight, 2-pin + PE

Connectivity – Splitter

YB2-FSM5-2FKM5.4	–	Ident-No. 6930492
	2-port Junction Systems Y-Splitter without Cable, Male M12 x 1 - 2 x Female M12 x 1 ■ Male M12, 5-pin ■ Female M12, 4-pin ■ RoHS conform ■ Protection class IP67	
YB2-FSM4.4-2PKG3M	–	Ident-No. 6930549
	2-port Junction Systems Y-Splitter without Cable, Male M12 x 1 - 2 x Female M8 x 1 ■ Male M12, 4-pin ■ Female M8, 3-pin ■ RoHS conform ■ Protection class IP67	
VB2-FSM4.4-2FKM4	–	Ident-No. 6930560
	2-port Junction Systems Y-Splitter without Cable, Male M12 x 1 - 2 x Female M12 x 1 ■ Male M12, 4-pin ■ Female M12, 3-pin ■ RoHS conform ■ Protection class IP67	
VB2-FSM4.4-2MFK3	–	Ident-No. 6930559
	2-port Junction Systems Y-Splitter without Cable, Male M12 x 1 - 2 x Female M8 x 1 ■ Male M12, 4-pin ■ Female M8, 3-pin ■ RoHS conform ■ Protection class IP67	
VB2-FSM5-2FKM4.4/S2087	–	Ident-No. 6930563
	2-port Junction Systems Y-Splitter without Cable, Male M12 x 1 - 2 x Female M12 x 1 ■ Male M12, 5-pin ■ Female M12, 4-pin ■ RoHS conform ■ Protection class IP67 ■ With oval borehole (5 mm sleeve)	

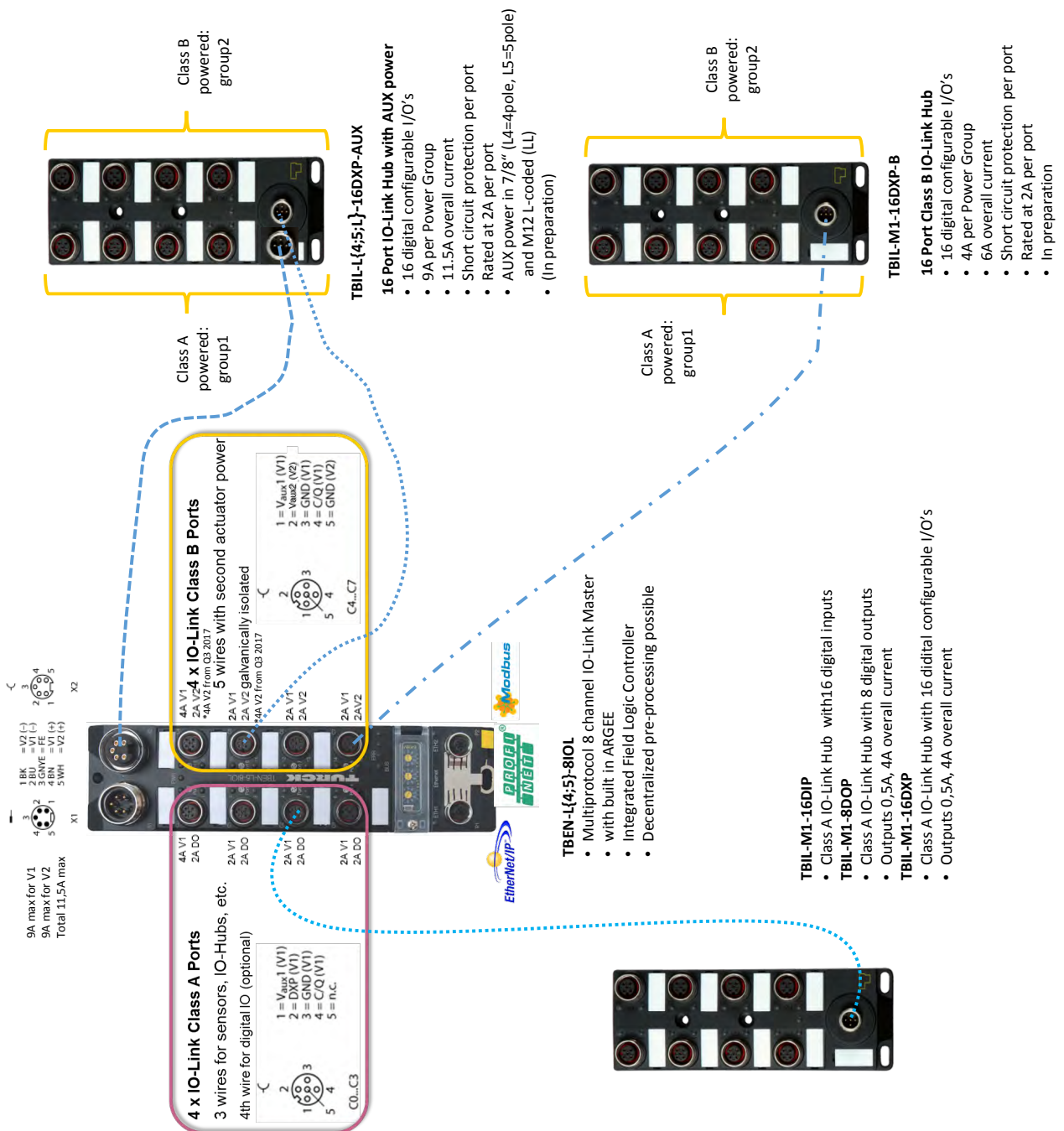
CSF-M12F51M12M41	–	Ident-No. 3079657
	Connection cable Y-piece ■ M12 x 1 female, 5-pin on 2 x M12 x 1 male, 4-pin ■ Unshielded ■ Cable material PVC, green ■ Cable diameter 5.5 mm ■ Protection class IP67 ■ Ambient temperature: -40...+105 °C ■ Length: 0.63 m ■ 250 VDC, 4 A max. ■ 300 VDC, 4 A max.	
TORQUE-WRENCH-SET-AS	–	Ident-No. 6936170
	Accessories for actuator/sensor cables Set of Torque Wrenches Turck Line ■ 1 x grip with adjustable torque 0.4...1.0 Nm ■ 1 x torque setting tool ■ 1 x fork wrench for M8 (SW9) ■ SW9 for all cables with M8 female or male connectors and both brass and stainless steel nuts ■ 1 x fork wrench for M12 (SW14) ■ SW14 for sensor and actuator cables with M12 female or male connectors and both brass and stainless steel nuts	

Connectivity – Passive Junction Box

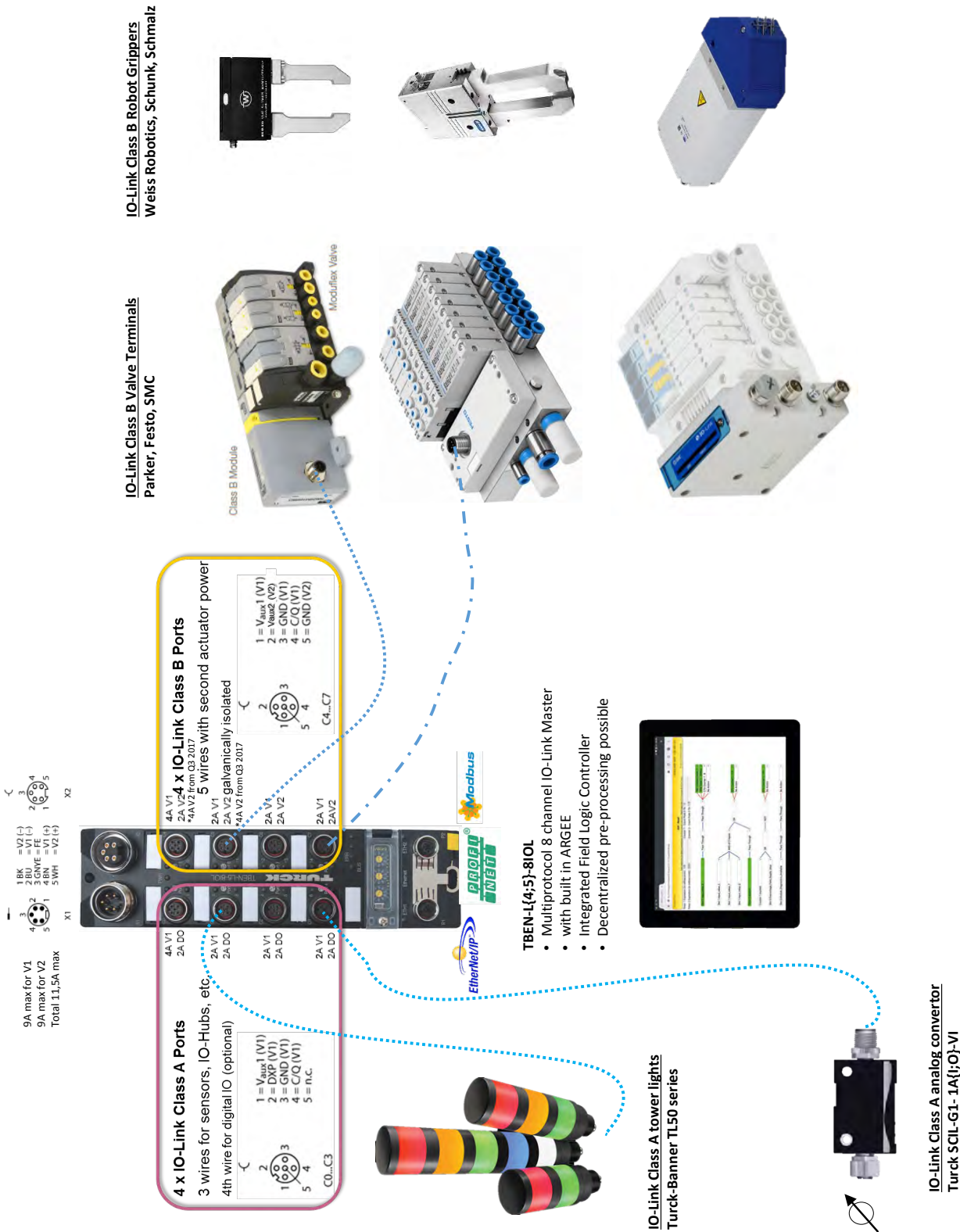
TB-4M12-5P3-CS19T	–	Ident-No. 6611903
	Passive Actuator/Sensor Box, M12 × 1 4-port, with M23 Connector for Supply Cable ■ Housing material: Nylon ■ Housing color: black ■ Protection class IP67 ■ RoHS conform ■ cULus listed ■ I/O port (number of pins): 4-pin + PE ■ LED (PNP circuit)	
TB-4M12-5P3-CS19H	–	Ident-No. 6611959
	Passive Actuator/Sensor Box, M12 × 1 4-port, with M23 Connector for Supply Cable ■ Housing material: Nylon ■ Housing color: black ■ Protection class IP67 ■ RoHS conform ■ cULus listed ■ I/O port (number of pins): 4-pin + PE ■ LED (PNP circuit)	
TB-6M12-5P3-CS19T	–	Ident-No. 6611923
	Passive actuator/sensor junction box, M12 × 1 6-port, with male M23 for incoming line ■ Housing material: Nylon ■ Housing color: black ■ Protection class IP67 ■ RoHS conform ■ cULus listed ■ I/O port (number of pins): 4-pin + PE ■ LED (PNP circuit)	
TB-6M12-5P3-CS19H	–	Ident-No. 6611963
	Passive actuator/sensor junction box, M12 × 1 6-port, with male M23 for incoming line ■ Housing material: Nylon ■ Housing color: black ■ Protection class IP67 ■ RoHS conform ■ cULus listed ■ I/O port (number of pins): 4-pin + PE ■ LED (PNP circuit)	
TB-8M12-5P3-CS19T	–	Ident-No. 6611943
	Passive Actuator/Sensor Box, M12 × 1 8-port, with M23 Connector for Supply Cable ■ Housing material: Nylon ■ Housing color: black ■ Protection class IP67 ■ RoHS conform ■ cULus listed ■ I/O port (number of pins): 4-pin + PE ■ LED (PNP circuit)	

TB-8M12-5P3-CS19H	–	Ident-No. 6611967
	Passive Actuator/Sensor Box, M12 × 1 8-port, with M23 Connector for Supply Cable ■ Housing material: Nylon ■ Housing color: black ■ Protection class IP67 ■ RoHS conform ■ cULus listed ■ I/O port (number of pins): 4-pin + PE ■ LED (PNP circuit)	

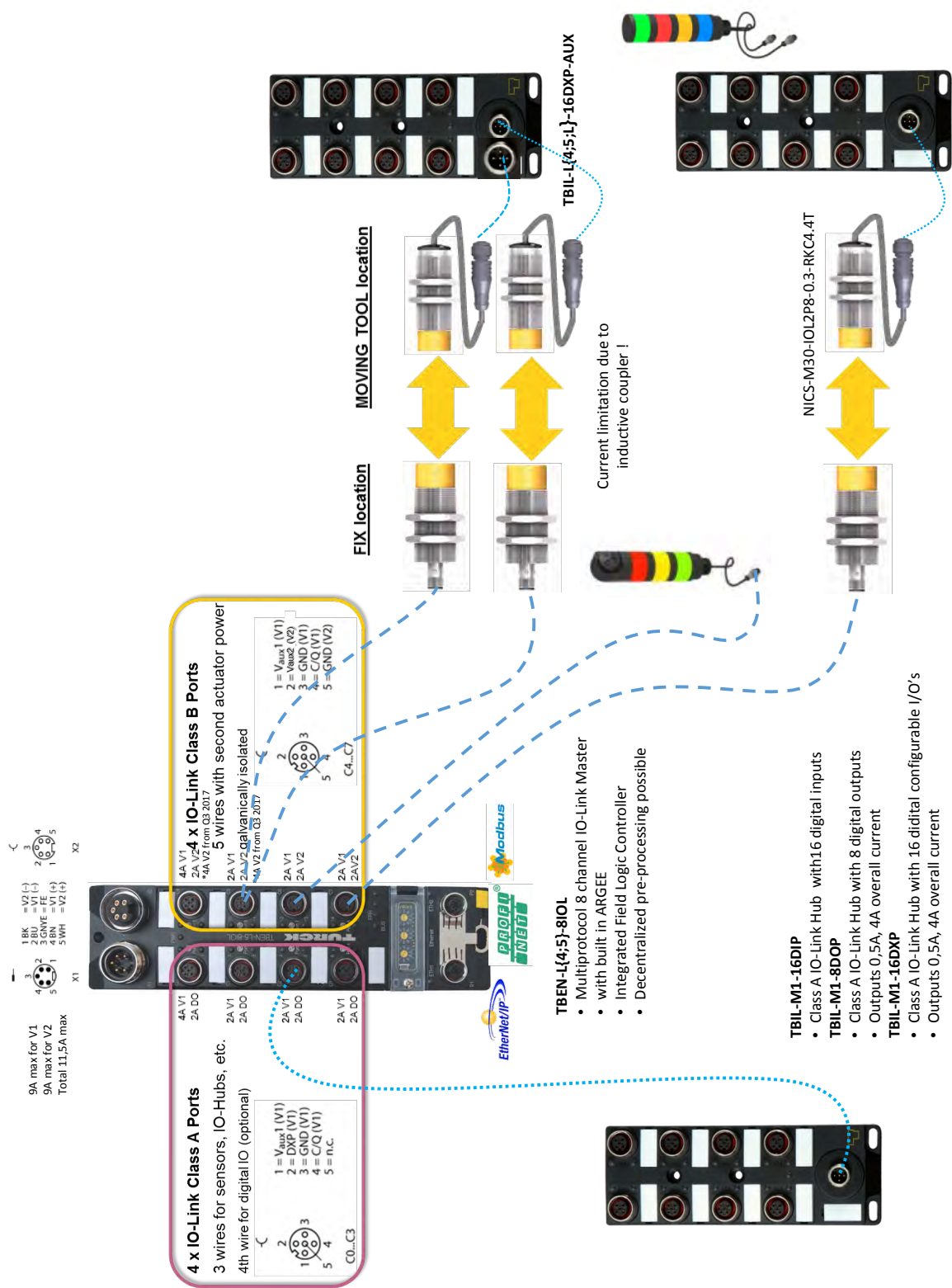
IO-Link – Concepts



IO-Link – Concepts



IO-Link – Concepts

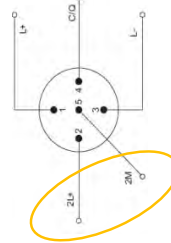


IO-Link – Concepts

- Multiprotocol = 1 device for EtherNet/IP, Profinet, modbus
- Multiprotocol 8 channel IO-Link Master TBEN-L{4;5}-8IOL (4=4 pin power 7/8", 5=5 pin power 7/8")
 - C0..C3 = 4 Class A IO-Link master ports + 4 configurable digital I/O
 - C4..C7 = 4 Class B IO-Link master ports + 4 digital out 2Amps with diagnostics per port
 - C0 and C4 = 4A max for V1 Aux
 - C4 and C5 = 4A max for V2 Aux (from Q3-2017)
 - V1 Aux can be switched off separately via process data for all 8 channels
 - V2 Aux can be switched off separately for each class B port
 - Class B ports : V1 Aux and IO-Link communication stays active when V2 is switched off with full diagnostics.
 - V1 and V2 are galvanic isolated
- Possibility to process data in TBEN-L {4;5}-8IOL due to ARGEE
 - **ARGEE**
 - Local PLC-FLC in IP67 block I/O devices
 - Function is on board, free of charge

Class B

5-Pin-Connector



TBEN IO-Link master
Device-power on Pin 1 and 3, communication on Pin 4, additional galvanic isolated switchable (Aktor-) Power between Pin 2 und 5

Class A

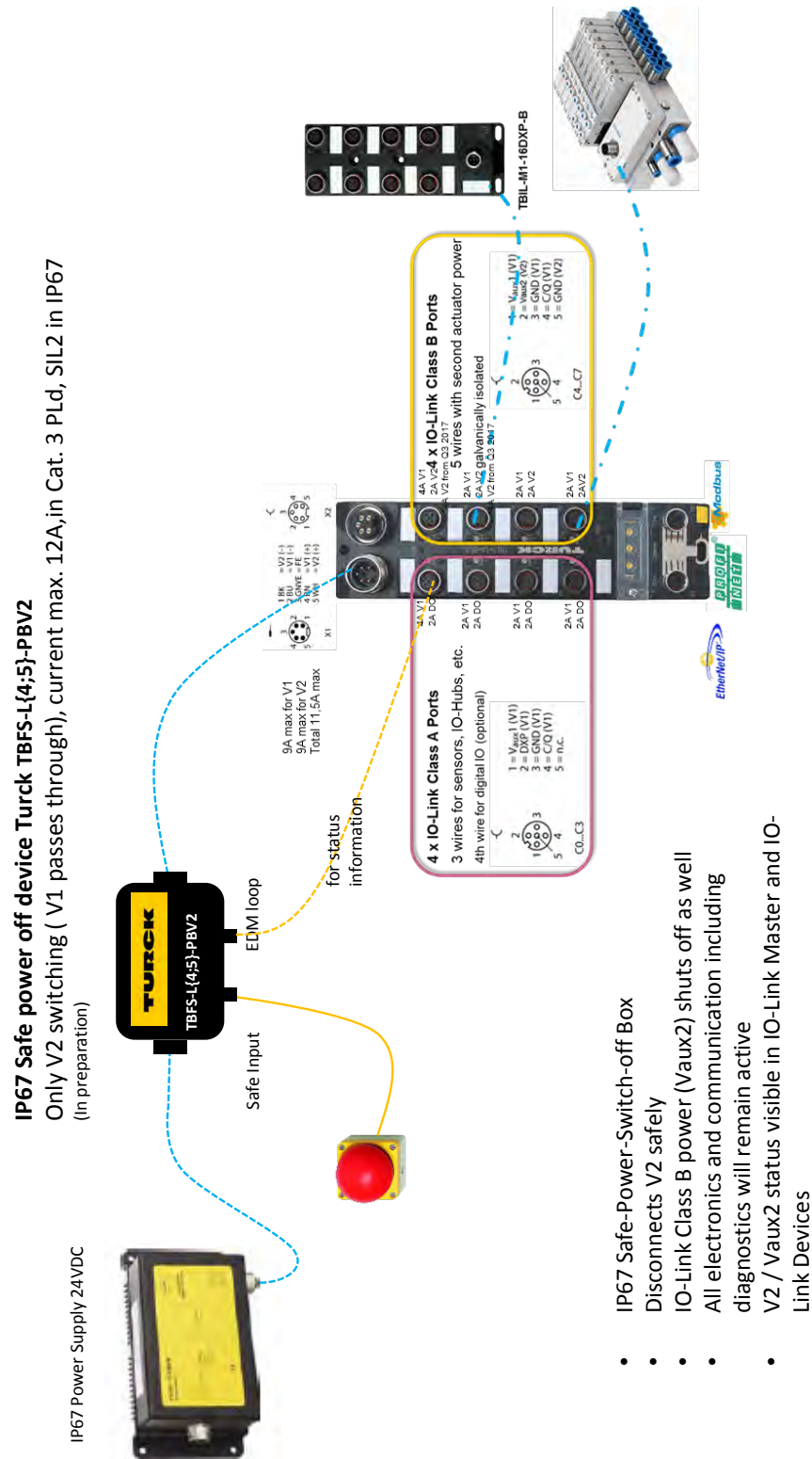
3-Pin-Connector



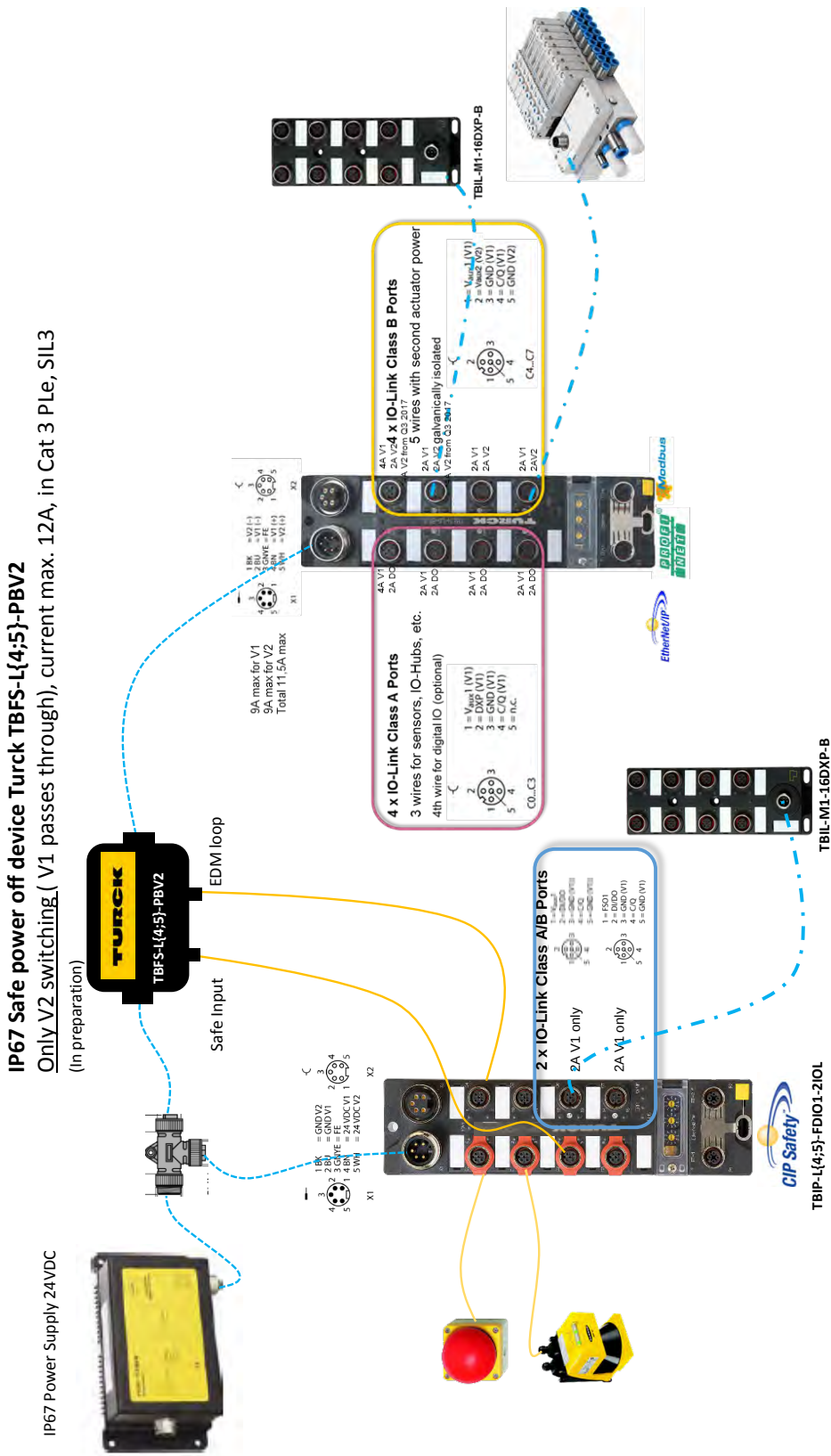
TBEN IO-Link master
Device-power on Pin 1 and 3, communication on Pin 4.

- Quick connect
 - TBEN-L{4;5}-8IOL: Ready in <150 ms
 - TBEN-L{4;5}-8IOL + TBIL : Ready in < 300 ms
 - Inductive coupler + TBIL : Ready in <750 ms

IO-Link – Concepts



IO-Link – Concepts



IO-Link – IO-Link Master

TBEN-L5-8IOL	–	Ident-No. 6814017
	Compact Multiprotocol I/O Module for Ethernet 8 IO-Link Master Channels 4 Universal Digital PNP Channels, 2 A, Channel Diagnostics ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M12, 4-pin, D-coded, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ 7/8" connector for power supply, 5-pin ■ M12 ports for IO-Link master, 5-pin ■ IO-Link master port class A and port class B ■ IO-Link Protocol 1.1 ■ FLC/ARGEE programmable Ask P. Müller/D. Green (Standards)	
TBEN-S2-4IOL	–	Ident-No. 6814024
	Compact Multiprotocol I/O Module for Ethernet 4 IO-Link Master Channels 4 Universal Digital PNP Channels, 0.5 A, Channel Diagnostics ■ PROFINET device, EtherNet/IP device or Modbus TCP slave ■ Integrated Ethernet switch ■ Supports 10 Mbps/100 Mbps ■ 2x M8, 4-pin, Ethernet fieldbus connection ■ Glass fiber reinforced housing ■ Shock and vibration tested ■ Fully potted module electronics ■ Protection classes IP65, IP67, IP69K ■ M8 connector for power supply, 4-pin ■ Separated power groups for safety shutdown ■ M12 ports for IO-Link master, 5-pin ■ IO-Link Protocol 1.1 ■ FLC/ARGEE programmable Ask P. Müller/D. Green (Standards)	
BL67-4IOL	–	Ident-No. 6827386
	BL67 electronic module 4 IO-Link master channels 4 configurable digital channels, PNP, channel diagnostics, 0.5 A ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ 4 IO-Link master acc. to specification V1.1 ■ 4 universal digital channels, PNP, channel diagnostics, 0.5 A ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers	

IO-Link – I/O Hubs

TBIL-M1-16DIP	–	Ident-No. 6814100
	I/O hub for connection of digital signals to IO-Link master 16 digital PNP inputs ■ Rugged, fully potted I/O hub in IP67 ■ IO-Link diagnostics for short-circuit and supply voltage ■ 2 inputs per port ■ Metal connector	
TBIL-M1-8DOP	–	Ident-No. 6814101
	I/O hub for connection of digital signals to IO-Link master 8 digital PNP outputs 0.5A ■ Rugged, fully potted I/O hub in IP67 ■ IO-Link diagnostics for short-circuit and supply voltage ■ 1 output per port ■ Metal connector	
TBIL-M1-16DXP	–	Ident-No. 6814102
	I/O hub for connection of digital signals to IO-Link master 16 universal digital channels, PNP ■ Rugged, fully potted I/O hub in IP67 ■ IO-Link diagnostics for short-circuit and supply voltage ■ 2 universal digital channels per port ■ Metal connector Ask P. Müller/D. Green (Standards)	

IO-Link – Tower Lights

TL50GYRAKQ	–	Ident-No. 3801290
	LED indicator tower light ■ Beeper max. 92 dB ■ Plastic housing, black ■ EMI and RFI immune ■ Protection class IP50 ■ M12 x 1 male ■ Parameterizable via IO-Link ■ Multicolor: Green (COL 1) / Yellow (COL 2) / Red (COL 3)	
TL50GYRKQ	–	Ident-No. 3801283
	LED indicator tower light ■ Plastic housing, black ■ EMI and RFI immune ■ Protection class IP67 ■ M12 x 1 male connector ■ Parameterizable via IO-Link ■ Multicolor: Green (COL 1) / Yellow (COL 2) / Red (COL 3)	

LED Technology – Tower Lights and Indicators

M18/S18L/S22L

Multi color indicator light threaded mount cylindrical



T8L/T18/T30

Multi color indicator light threaded mount T-shape



K50FL/TL30F

Multi color indicator light threaded flat mount



K30L/K50L/K90L

Multi color indicator light dome shape 30/50/90 mm



TL50/TL70

Vertical indicator light tower lights



LED Technology – Tower Lights and Indicators

TL50 Ford



Tower light kit:
 SA30-78x76x4 (legend plate elevated, 30 mm mount, 4 labels 78x74
 SA-M30TE12 (top)
 SOP-E12-150A (riser black anodized alu, 150 mm, also in 300/600/900)
 SA-E12M30 (bottom)
 SMBAMS30RA (bracket right angle)
 RKC4.5-*-TXL (M12 cordset open end, 5-pole, *= length in m)

K50BL

Beacon lights



TL50BL

Beacon tower lights



K30-K50T

Touch buttons



K30-K50P

Push buttons



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