

Your Global Automation Partner

TURCK



Ford C519 Focus Saarlouis

Project Manual

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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-H1341	4600555	Preferred prox. Switch (M8) of U-ES 002 uprox Hanging Line only!	
439	Turck	Bi10U-MT30-AP6X-H1141	1636240	Preferred prox. Switch (M30) of U-ES 002 uprox	
444	Turck	Bi15U-CK40-AP6X2-H1141	1625600	Preferred prox. Switch (M30) of U-ES 002 uprox	
442	Turck	Bi15U-MT30-AP6X-H1141	1636734	Preferred 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	Preferred 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	Preferred prox. Switch (M12) of U-ES 002 uprox	
440	Turck	Bi4U-MT12-AP6X-H1141	1634809	Preferred prox. Switch (M12) of U-ES 002 uprox +	
448	Turck	Bi50U-Q80-AP6X2-H1141	1608940	Preferred prox. Switch (Square) of U-ES 002 uprox	
438	Turck	Bi5U-MT18-AP6X-H1141	1635240	Preferred 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	Preferred 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	N
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, jumper cable see further CSM-CKM19...	
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	N
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-bus station for EtherNet/IP™, 16 configurable digital channels, 1A for outputs, 3 Separated power groups, integrated switch, EIP QUICK CONNECT functionality, bus in-out RJ45. Built-in web server	

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No	Supplier	Typ ID	Art. No.	Description	D or N or C
496	Turck	FEN20-4DIP-4DXP	6931090	IP 20 Multiprotocol compact stand alone fieldbus station 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	N
460	Turck	KLI5	6971802	Clamp for magnet inductive switch	
461	Turck	KLN3	6970504	Clamp for magnet inductive switch	
455	Turck	NI100U-K90SR-VP4X2-H1141	1625844	Prox. Switch with extended switching distance	
450	Turck	Ni12U-MT18-AP6X-H1141	1645240	Preferred prox. Switch (M18) of U-ES 002 uprox	
452	Turck	NI20-Q14-AP6X2-V1131	4690210	Preferred prox. Switch (rectangular)	
451	Turck	Ni20U-MT30-AP6X-H1141	1646240	Preferred prox. Switch (M30 of U-ES 002 uprox	
456	Turck	NI4-DSC26-2AP6X2-H1141	1650087	Inductive Valve Switch with NO & NC output for water & air panels. To combine with BTS-DSC26-EB1(53mm) or EB2(62 mm) puck	
453	Turck	Ni50U-CK40-AP6X2-H1141	1625837	Preferred prox. Switch (Square) of U-ES 002 uprox + Flush mounting possible with reduced distance.	
454	Turck	NI75U-CP80-AP6X2-H1141	1623805	Preferred prox. Switch(Square) of U-ES 002 uprox	
449	Turck	Ni8U-MT12-AP6X-H1141	1644240	Preferred 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)	N
886	Turck	NICP-M30-IOL2P8X-H1141	4300101	Inductive coupler for power and data primary side with IO-link & 2 PNP outputs in M30 barrel (needs to be combined with a secondary side unit)	N
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 master ! High deviation in position and angle allowed. Higher distance between prim & sec part	N
873	Turck	NIMFE-EM12/4,0L60-L60-UP6X-H1141/S1182	1600621	Switch for detection from weld nut presence - short version- starting from M5	N
462	Turck	NIMFE-M12/4,6L88-UP6X-H1141	1600608	Switch for detection from weld nut presence - starting from M6	
463	Turck	NIMFE-M12/6,2L101-UP6X-H1141	1600609	Switch for detection from weld nut presence - starting from M8	

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No	Supplier	Typ ID	Art. No.	Description	D or N or C
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-4414-Xm (M8-M8) PSGS4M-RJ45S-4414-xM (RJ45-M8) RSSD-PSGS4M-4414-xM (M12-M8)		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 halogen free, green, flame-retardant acc. IEC 60332-1, Trailing-drag chain capable, Shielding over 360°, UL approved, UV resistant	
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	N
465	Turck	RU130U-M18M-UP8X2-H1151	1610014	Ultrasonic sensor M18, diffuse mode sensor, sensing range: 15...130 cm	
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 manageable 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	
468	Turck	TBEN-L1-16DOP	6814007	IP 67 Multiprotocol I/O module for EtherNet/IP™, 16 Digital Outputs 2A, 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	
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	
471	Turck	TBEN-L1-8IOL	6814017	IP 67 Multiprotocol I/O module for EtherNet/IP™, 8 IO link master channels + 8 configurable digital channels with diagnostics, 2 A for outputs, integrated switch, Built-in web server, bus in-out M12 D-coded, power in-out 7/8"-5 pins	

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No	Supplier	Typ ID	Art. No.	Description	D or N or C
474	Turck	TBEN-L1-EN1	6814035	IP 67 module in TBEN block I/O housing for variable exchange between 2 EtherNet/IP™ networks	
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.	
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 (0,5 A), 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 !	
479	Turck	TBEN-S1-8DXP	6814023	COMPACT IP 67 Multiprotocol I/O module for EtherNet/IP™, 8 configurable digital channels, outputs (0,5 A), 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	N
472	Turck	TBIP-L1-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 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	

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No	Supplier	Typ ID	Art. No.	Description	D or N or C
879	Turck	TNLR-Q80-H1147	7030230	HF read/write head, rectangular 80 x 80 mm, 40 mm height	N
881	Turck	TNSLR-Q42TWD-H1147	7030424	HF read/write head, compact rectangular 42,5 x 42,5, 68 mm height	N
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	N
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	N
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	N
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 flange 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, female flange 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 halogen 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	ID number: 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	ID number: 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	ID number: 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	ID number: 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 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 5 mm, flush

BI8U-MT18-AP6X-H1141	ID number: 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	ID number: 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 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 10 mm, flush
BI15U-MT30-AP6X-H1141	ID number: 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	ID number: 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 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 8 mm, non-flush
NI12U-MT18-AP6X-H1141	ID number: 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 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 12 mm, non-flush

NI20U-MT30-AP6X-H1141	ID number: 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 ■ Resistant to magnetic fields ■ Extended temperature range ■ High switching frequency Rated switching distance: 20 mm, non-flush
BI15U-CK40-AP6X2-H1141	ID number: 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	ID number: 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	ID number: 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**ID number: 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

Please see accessories MF-CK40-3S

MF-CK40-3S**ID number: 6900483**

Mounting accessories

- Protective frame (U profile)

Usable with BI30U-CK40-AP6X2-H1141 and NI50U-CK40-AP6X2-H1141

NI50U-CK40-AP6X2-H1141**ID number: 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

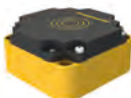
Rated switching distance: 50 mm, non-flush

BI30U-CP40-AP6X2**ID number: 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

BI50U-Q80-AP6X2-H1141	ID number: 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	ID number: 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	ID number: 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	ID number: 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**ID number: 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**ID number: 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	ID number: 46272
	Magnetic field sensor for pneumatic cylinders (magnetic-field immune) ■ Rectangular, height 34 mm ■ Front active face ■ 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	ID number: 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	ID number: 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
KLI 5 KLEMMSTÜCK	ID number: 6971802
	Mounting accessories for profile cylinders Mounting accessories for magnetic-inductive sensors for mounting on profile cylinders with diameters of 32...50 mm, aluminium
KLN 3 KLEMMSTÜCK	ID number: 6970504
	Mounting 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****ID number: 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**ID number: 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**ID number: 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**ID number: 6999084**

Teach adapter
For Weld Nut Sensors

- Male connector M12 x 1

Sensor Technology – Ultrasonic

RU40U-M18M-UP8X2-H1151	ID number: 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 ■ NO/NC programmable ■ Blind zone: 2.5 cm ■ Range: 40 cm ■ Resolution: 0.5 mm ■ Sonic cone angle: 9° Max. range: 40cm
RU130U-M18E-2UP8X2-H1151	ID number: 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: 130cm
RU300U-M30E-2UP8X2T-H1151	ID number: 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: 300cm
TX1-Q20L60	ID number: 6967114
	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 Pointer

QS186LE2Q8	ID number: 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	ID number: 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	ID number: 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**ID number: 6832842**

Pressure transmitter (rotatable)
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 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**ID number: 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

IO-Link

TS-516-LI2UPN8X-H1141-L050**ID number: 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

IO-Link

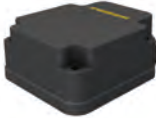
Inductive Coupler

NICS-M30-IOL2P8-0,3-RKC4.4T	ID number: 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	ID number: 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	ID number: 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	ID number: 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 Please direct queries to P. Müller/D. Green (Standards)

Sensor Technology – Accessories

SMB18AFAM10	ID number: 3012558
	mounting accessories mounting bracket ■ Mounting bracket ■ Stainless steel ■ For 18 mm thread ■ M10 x 1.5 thread
SMB30SC	ID number: 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	ID number: 3053952
	mounting accessories mounting bracket ■ Mounting bracket ■ Plastic, black ■ For 18 mm thread
SMB18A	ID number: 3033200
	mounting accessories mounting bracket ■ Mounting bracket ■ M18 ■ Stainless steel
SMB30A	ID number: 3032723
	mounting accessories mounting bracket ■ M30 feedthrough ■ For sensors with 30 mm thread

Identification – Read/write Head HF

TNSLR-Q80-H1147	ID number: 7030230
	read/write head ■ Rectangular, height 40 mm ■ Active face on top ■ Plastic, PBT-GF30-VO ■ Powered and operated only via BL ident interface module ■ Male M12 x 1, only for use with BL ident extension cable
TNSLR-Q80WD-H1147	ID number: 7030418
	Read/write head ■ Rectangular, height 40 mm ■ Active face on top ■ Plastic, PPS-GF30 ■ Powered and operated only via BL ident interface module ■ Male M12 x 1, only for use with BL ident extension cable
TNSLR-Q42TWD-H1147	ID number: 7030424
	read/write head ■ Rectangular, height 42.5 mm ■ Active face on top ■ Plastic, PA12-GF30 ■ Powered and operated only via BL ident interface module ■ Male M12 x 1, only for use with BL ident extension cable
RK4.5T-5-RS4.5T/S2500	ID number: 6699201
	BL ident connection cable standard version ■ 4-pin, AWG 24 / AWG 22 ■ Sheath material: PUR jacket, yellow ■ Halogen and LABS free ■ Shield: Aluminium foil, tinned copper wire ■ Sheath diameter: 6.4 mm ■ Qualified for drag chain use, oil-resistant, highly flexible ■ Cable UL Style 20963 ■ Cable length: 5.0 m

Identification – Data Carrier HF

TW-R50-K2	ID number: 6900507
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Mobile data carrier
■ FRAM memory 2 kB

DS-R50	ID number: 6900386
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Accessories
Spacer for indirect mounting of data carriers on metal.

Identification – Interface HF/UHF

BL67-GW-EN	ID number: 6827214
	Gateway for BL67 I/O system multiprotocol interface for Ethernet ■ 3 decimal rotary coding switches ■ Protection class IP67 ■ LEDs for display of supply voltage, group and bus errors ■ 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
BL67-2RFID-S	ID number: 6827305
	<i>BL ident</i>® extension module for I/O communication Interface for connection of <i>BL ident</i>® read/write heads (HF/UHF) ■ A special software (function module) for integration in PLC systems is not required ■ 8 byte user data per read/write cycle ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers ■ 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
BL67-B-2M12	ID number: 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 ■ M12 connection technology ■ 5-pin ■ 2 slots

Connectivity – Cables and Flanges Ethernet

RSSD-RSSD-441-*M/S2174



- Industrial Ethernet Cable
PUR Cable Sheath, 4-pin
- Ethernet cable: 4-pin, AWG 22 / 7
 - acc. to ISO/IEC 11801 CAT 5E
 - Sheath material: PUR, color: green
 - Shield: Aluminium foil, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Qualified for drag chain use
 - UL approval
 - UV-resistant
 - Cable length: * m
 - M12 male, straight, D-coded

RSSD-RSSD-4416-*M



- Industrial Ethernet Cable
PUR Cable Sheath
- M12 male connector, straight, D-coded
 - D-coding
 - Ethernet cable: 4-pin, AWG 22
 - CAT 5E
 - Sheath material: PUR
 - Sheath color: Green
 - Shield: Aluminium foil overlapped, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Oil resistant acc. to IEC 60811-2-1 and UL13
 - Free from halogene acc. to IEC 60754
 - Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
 - RoHS conform
 - M12 male, straight

RSSD-RJ45-441-*M/S2174



- Industrial Ethernet Cable
PUR Cable Sheath, 4-pin
- Ethernet cable: 4-pin, AWG 22 / 7
 - acc. to ISO/IEC 11801 CAT 5E
 - Sheath material: PUR, color: green
 - Shield: Aluminium foil, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Qualified for drag chain use
 - UL approval
 - UV-resistant
 - Cable length: * m
 - M12 male, straight, D-coded

RSSD-RJ45S-4416-*M



- Industrial Ethernet Cable
PUR Cable Sheath
- M12 male connector, straight, D-coded
 - D-coding
 - Ethernet cable: 4-pin, AWG 22
 - CAT 5E
 - Sheath material: PUR
 - Sheath color: Green
 - Shield: Aluminium foil overlapped, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Oil resistant acc. to IEC 60811-2-1 and UL13
 - Free from halogene acc. to IEC 60754
 - Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
 - RoHS conform
 - RJ45 male connector, straight, 4-pin

RJ45-RJ45-441-*M/S2174


- Industrial Ethernet Cable
PUR Cable Sheath, 4-pin
- Ethernet cable: 4-pin, AWG 22 / 7
 - acc. to ISO/IEC 11801 CAT 5E
 - Sheath material: PUR, color: green
 - Shield: Aluminium foil, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Qualified for drag chain use
 - UL approval
 - UV-resistant
 - Cable length: * m

RJ45S-RJ45S-4416-*M


- Industrial Ethernet Cable
PUR Cable Sheath
- RJ45 male connector, straight, 4-pin
 - D-coding
 - Ethernet cable: 4-pin, AWG 22
 - CAT 5E
 - Sheath material: PUR
 - Sheath color: Green
 - Shield: Aluminium foil overlapped, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Oil resistant acc. to IEC 60811-2-1 and UL13
 - Free from halogene acc. to IEC 60754
 - Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
 - RoHS conform
 - RJ45 male connector, straight, 4-pin

RJ45-FKSDD-441-*M/S2174


- Industrial Ethernet Cable
PUR Cable Sheath, 4-pin
- Ethernet cable: 4-pin, AWG 22 / 7
 - acc. to ISO/IEC 11801 CAT 5E
 - Sheath material: PUR, color: green
 - Shield: Aluminium foil, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Qualified for drag chain use
 - UL approval
 - UV-resistant
 - Cable length: * m

PSGS4M-PSGS4M-4414-*M


- Industrial Ethernet Cable
PUR Cable Sheath
- M8 connector, straight
 - Cable length: * m
 - Ethernet cable: 4-pin, AWG 26
 - CAT 5E acc. to ISO/IEC 11801, EN 50173, EIA/TIA 568-A
 - Sheath material: PUR
 - Sheath color: green
 - Shield: Polyester film laminated aluminum, copper wire
 - Sheath diameter: 4.8 mm
 - Qualified for drag chain use
 - UV-resistant
 - Category 4 to IEC 60811-2-1 and DIN EN 0282 part 10
 - Free from silicone, PVC and LABS
 - Free from halogene acc. to IEC 60754-2
 - Flame-retardant acc. to IEC 60332-1
 - Approval: cULus
 - RoHS-compliant
 - Protection class IP67
 - M8 connector, straight

PSGS4M-PSGS4M-4416-*M

- Industrial Ethernet Cable
PUR Cable Sheath
- M8 connector, straight
 - Cable length: * m
 - Ethernet cable: 4-pin, AWG 22
 - CAT 5E
 - Sheath material: PUR
 - Sheath color: Green
 - Shield: Aluminium foil overlapped, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Oil resistant acc. to IEC 60811-2-1 and UL13
 - Free from halogene acc. to IEC 60754
 - Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
 - RoHS conform
 - M8 connector, straight

PSGS4M-RJ45S-4414-*M

- Industrial Ethernet Cable
PUR Cable Sheath
- M8 connector, straight
 - Cable length: * m
 - Ethernet cable: 4-pin, AWG 26
 - CAT 5E acc. to ISO/IEC 11801, EN 50173, EIA/TIA 568-A
 - Sheath material: PUR
 - Sheath color: green
 - Shield: Polyester film laminated aluminum, copper wire
 - Sheath diameter: 4.8 mm
 - Qualified for drag chain use
 - UV-resistant
 - Category 4 to IEC 60811-2-1 and DIN EN 0282 part 10
 - Free from silicone, PVC and LABS
 - Free from halogene acc. to IEC 60754-2
 - Flame-retardant acc. to IEC 60332-1
 - Approval: cULus
 - RoHS-compliant
 - Protection class IP67
 - RJ45 male, straight, 4-pin

PSGS4M-RJ45S-4416-*M

- Industrial Ethernet Cable
PUR Cable Sheath
- M8 connector, straight
 - Cable length: * m
 - Ethernet cable: 4-pin, AWG 22
 - CAT 5E
 - Sheath material: PUR
 - Sheath color: Green
 - Shield: Aluminium foil overlapped, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Oil resistant acc. to IEC 60811-2-1 and UL13
 - Free from halogene acc. to IEC 60754
 - Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
 - RoHS conform
 - RJ45 male connector, straight, 4-pin

RSSD-PSGS4M-4414-*M

- Industrial Ethernet Cable
PUR Cable Sheath
- M12 male connector, straight, D-coded
 - Cable length: * m
 - Ethernet cable: 4-pin, AWG 26
 - CAT 5E acc. to ISO/IEC 11801, EN 50173, EIA/TIA 568-A
 - Sheath material: PUR
 - Sheath color: green
 - Shield: Polyester film laminated aluminum, copper wire
 - Sheath diameter: 4.8 mm
 - Qualified for drag chain use
 - UV-resistant
 - Category 4 to IEC 60811-2-1 and DIN EN 0282 part 10
 - Free from silicone, PVC and LABS
 - Free from halogene acc. to IEC 60754-2
 - Flame-retardant acc. to IEC 60332-1
 - Approval: cULus
 - RoHS-compliant
 - Protection class IP67
 - M8 connector, straight

RSSD-PSGS4M-4416-*M

- Industrial Ethernet Cable
PUR Cable Sheath
- M12 male connector, straight, D-coded
 - Cable length: * m
 - Ethernet cable: 4-pin, AWG 22
 - CAT 5E
 - Sheath material: PUR
 - Sheath color: Green
 - Shield: Aluminium foil overlapped, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Oil resistant acc. to IEC 60811-2-1 and UL13
 - Free from halogene acc. to IEC 60754
 - Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
 - RoHS conform
 - M8 connector, straight

Connectivity – Bulk Cable Ethernet

KABEL441-100M/S2174

ID number: 6914212



- Industrial Ethernet Cable
PUR Cable Sheath, 4-pin
- Ethernet cable: 4-pin, AWG 22 / 7
 - acc. to ISO/IEC 11801 CAT 5E
 - Sheath material: PUR, color: green
 - Shield: Aluminium foil, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Qualified for drag chain use
 - UL approval
 - UV-resistant
 - Cable length: 100 m
 - Open end
 - Open end

CABLE4416-100M

ID number: 6441600



- Industrial Ethernet Cable
PUR Cable Sheath
- D-coding
 - Ethernet cable: 4-pin, AWG 22
 - CAT 5E
 - Sheath material: PUR
 - Sheath color: Green
 - Shield: Aluminium foil overlapped, tinned copper wire
 - Sheath diameter: 6.5 mm
 - Oil resistant acc. to IEC 60811-2-1 and UL13
 - Free from halogene acc. to IEC 60754
 - Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
 - RoHS conform

Connectivity – Accessories Ethernet

FW-M12ST5D-G-SB-ME-SH-8	ID number: 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
FW-M12KU5D-G-SB-ME-SH-8	ID number: 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
BIC-44-E424	ID number: 6604407
	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...+75 °C ■ D-coding ■ Protection class: IP20/67
FKSDD-RJ45SF-44	ID number: 6611523
	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	ID number: 6935264
	Accessories for Fieldbus Systems Ethernet Adapter M12 ■ For Industrial Ethernet ■ M12 x 1 female on M12 x 1 female, 4-pin ■ Mounting thread: M16 x 1.5 ■ D-coding ■ Voltage: 50 V ■ Ampacity: 4 A ■ Temperature: -25...+85°C ■ Protection class: IP67

Connectivity – Junction Multibus

VB2-M23ST-M23KU-RKF50-01
ID number: 6931776

 Industrial passive junction, 3-fold
without cable

VB2-M23ST-M23KU-RKF50-02
ID number: 6932156

 Industrial passive junction, 3-fold
without cable

RKM52-0,2-CSSM-BV16031301
ID number: 6936022

 PUR cable jacket, 5-pole
 ■ Power cable 5 x 1.5 mm²
 ■ Sheath material: PUR, color: grey
 ■ Sheath diameter: 8.5 mm
 ■ Qualified for drag chain use
 ■ Oil-resistant and flame-retardant
 ■ Halogen-free
 ■ Cable length: 0.2 m
 ■ 7/8" female, straight
 ■ M23 x 1 male connector, straight, potted, 17-pin

Connectivity – Cables and Flanges Power 24 V

RKM52-*M



- PUR cable jacket, 5-pole
- Power cable 5 x 1.5 mm²
- Sheath material: PUR, color: grey
- Sheath diameter: 8.5 mm
- Qualified 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-pole
- Power cable 5 x 1.5 mm²
- Sheath material: PUR, color: grey
- Sheath diameter: 8.5 mm
- Qualified 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-pole
- Power cable 5 x 1.5 mm²
- Sheath material: PUR, color: grey
- Sheath diameter: 8.5 mm
- Qualified 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-pole
- Power cable 5 x 1.5 mm²
- Sheath material: PUR, color: grey
- Sheath diameter: 8.5 mm
- Qualified 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-pole
- Power cable 5 x 1.5 mm²
- Sheath material: PUR, color: grey
- Sheath diameter: 8.5 mm
- Qualified 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	ID number: 6602218
	Accessories for fieldbus systems Wall/panel feed-through ■ Type: 7/8" adapter ■ 5-pin feedthrough male/female ■ For use in CAN (DeviceNet™, CANopen) applications ■ Ampacity: 9 A ■ Rated voltage: 600 V ■ Temperature range: -40...+105 °C ■ Protection class: NEMA 1, 3, 4 and IEC IP67
RSF57	ID number: 6602342
	Accessories for fieldbus systems Flange ■ Type: 7/8" male
RKF57	ID number: 6602217
	Accessories for fieldbus systems Flange ■ Type: 7/8" female
LN1/2-14NPT/10	ID number: 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"	ID number: 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	ID number: 6904717
	Round connector 7/8" Female, straight, customizable ■ For use in DeviceNet™/ CANopen applications ■ Metal coupling nut ■ UL approval ■ 5-pin

BS4151-0/9	ID number: 6904718
	7/8" Round connector male, straight, customizable ■ Metal coupling nut ■ UL approval ■ 5-pin
B4251-0/9	ID number: 6901113
	Round connector 7/8" field-wireable female connector, angled ■ For use in DeviceNet™/ CANopen applications ■ Metal coupling nut ■ UL approval ■ 5-pin
BS4251-0/9	ID number: 6901112
	Round connector 7/8" male, angled, customizable ■ For use in DeviceNet™/ CANopen applications ■ 5-pin
KABEL-PDP-52-100M	ID number: 6604716
	PUR cable jacket, 5-pole ■ Power cable 5 x 1.5 mm² ■ Sheath material: PUR, color: grey ■ Sheath diameter: 8.5 mm ■ Qualified for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: 100 m ■ Open end
KABEL-PDP-52-500M	ID number: 6604717
	PUR cable jacket, 5-pole ■ Power cable 5 x 1.5 mm² ■ Sheath material: PUR, color: grey ■ Sheath diameter: 8.5 mm ■ Qualified for drag chain use ■ Oil-resistant and flame-retardant ■ Halogen-free ■ Cable length: 500 m ■ Open end ■ Open end
RC-Z2104	ID number: 6900285
	

Connectivity – Cables and Flanges M23

CSM-CKM19-19-0,6/S101	ID number: 6931412
	Actuator and Sensor Cable, TPE M23 Connection 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-CKM19-19-1/S101	ID number: 6931413
	Actuator and Sensor Cable, TPE M23 Connection 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-CKM19-19-3/S101	ID number: 6931414
	Actuator and Sensor Cable, TPE M23 Connection 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-CKM19-19-5/S101	ID number: 6931767
	Actuator and Sensor Cable, TPE M23 Connection Cable

Connectivity – Cables and Flanges Sensor-Actuator

RKC4.4T-*.RSC4.4T/TXL



- Actuator/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/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
 - Sheath material: PUR sheathed with aramid
 - Sheath color: yellow
 - Resistant to weld splatter
 - Flame retardant
 - Resistant to chemicals, UV radiation and oils
 - Free from halogen, silicone, PVC and LABS
 - Approval: cULus (up to 80 °C)
 - RoHS conform
 - Protection class IP67
 - Protective sheathing material: Aramid fibers
 - Tensile strength: 2923 MPa
 - Breaking strength: 333 N
 - Elongation at break: 3.6%
 - Continuous operating temperature: 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
- Sheath material: PUR sheathed with aramid
- Sheath color: yellow
- Resistant to weld splatter
- Flame retardant
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- Approval: cULus (up to 80 °C)
- RoHS conform
- Protection class IP67
- Protective sheathing material: Aramid fibers
 - Tensile strength: 2923 MPa
 - Breaking strength: 333 N
 - Elongation at break: 3.6%
 - Continuous operating temperature: 200 °C
- Male M12, straight, 5-pin

RKC4T-*-PSG3M/TXL

Actuator/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/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 conform
- Protection class: IP67 and IP69K
- 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 – Junction Boxes

YB2-FSM5-2FKM5.4	ID number: 6930492
	Junction system, 2-port 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	ID number: 6930549
	Junction system, 2-port 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	ID number: 6930560
	Junction system, 2-port 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	ID number: 6930559
	Junction system, 2-port 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
TB-4M12-5P3-CS19T	ID number: 6611903
	Passive actuator/sensor junction box, M12 x 1 4-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-4M12-5P3-CS19H	ID number: 6611959
	Passive actuator/sensor junction box, M12 x 1 4-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-CS19T 	ID number: 6611923 Passive actuator/sensor junction box, M12 x 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 	ID number: 6611963 Passive actuator/sensor junction box, M12 x 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 	ID number: 6611943 Passive actuator/sensor junction box, M12 x 1 8-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-CS19H 	ID number: 6611967 Passive actuator/sensor junction box, M12 x 1 8-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)

Fieldbus Technology – I/O Modules

TBEN-L1-16DIP

ID number: 6814005

Compact multiprotocol I/O module for Ethernet
16 Digital PNP Inputs



TBEN-L1-16DOP

ID number: 6814007

Compact multiprotocol I/O module for Ethernet
16 Digital PNP Outputs



TBEN-L1-8DIP-8DOP

ID number: 6814006

Compact multiprotocol I/O module for Ethernet
8 Digital PNP Inputs and 8 Digital PNP Outputs 2 A



TBEN-L1-16DXP

ID number: 6814008

Compact multiprotocol I/O module for Ethernet
16 configurable digital channels, as PNP inputs or 2 A outputs



TBEN-S1-8DIP

ID number: 6814020

Compact multiprotocol I/O module for Ethernet
8 digital PNP inputs, input group diagnostics

- PROFINET, EtherNet/IP™ or Modbus TCP slave
 - Integrated Ethernet switch
 - 10 Mbps / 100 Mbps
 - 2 x M8, 4-pin, Ethernet connection
 - Input group diagnosis
 - Male M8, 4-pin, for power supply
- Only for robot end-of-arm tooling



TBEN-S1-8DOP	ID number: 6814022 Compact multiprotocol I/O module for Ethernet 8 digital PNP outputs 0.5A ■ PROFINET, EtherNet/IP™ or Modbus TCP slave ■ Integrated Ethernet switch ■ 10 Mbps / 100 Mbps ■ 2 x M8, 4-pin, Ethernet connection ■ Max. 0.5A per output ■ Output diagnostics per channel ■ Male M8, 4-pin, for power supply ■ Separated power groups for safety shutdown Only for robot end-of-arm tooling
TBEN-S1-4DIP-4DOP	ID number: 6814021 Compact multiprotocol I/O module for Ethernet 4 Digital PNP Inputs and 4 Digital PNP Outputs 2 A ■ PROFINET, EtherNet/IP™ or Modbus TCP slave ■ Integrated Ethernet switch ■ 10 Mbps / 100 Mbps ■ 2 x M8, 4-pin, Ethernet connection ■ Input diagnostics group ■ Max. 2 A per output ■ Output diagnostics per channel ■ Male M8, 4-pin, for power supply ■ Separated power groups for safety shutdown Only for robot end-of-arm tooling
TBEN-S1-8DXP	ID number: 6814023 Compact multiprotocol I/O module for Ethernet 8 universal digital channels, as PNP inputs or 0.5 A outputs ■ PROFINET, EtherNet/IP™ or Modbus TCP slave ■ Integrated Ethernet switch ■ 10 Mbps / 100 Mbps ■ 2 x M8, 4-pin, Ethernet connection ■ Input diagnostics group ■ One freely selectable digital channel per port ■ Max. 0.5A per output ■ Output diagnostics per channel ■ Male M8, 4-pin, for power supply ■ Separated power groups for safety shutdown Only for robot end-of-arm tooling
TBEN-S2-4IOL	ID number: 6814024 Compact multiprotocol I/O module for Ethernet 4 IO-Link Master Channels 4 Universal Digital PNP Channels, 0.5 A, Channel Diagnostics ■ PROFINET, EtherNet/IP™ or Modbus TCP slave ■ Integrated Ethernet switch ■ 10 Mbps / 100 Mbps ■ 2 x M8, 4-pin, Ethernet connection ■ M12 ports for IO-Link Master, 5-pin ■ IO-Link protocol 1.1 ■ Male M8, 4-pin, for power supply ■ Separated power groups for safety shutdown Please direct queries to P. Müller/D. Green (Standards)
TBEN-L5-8IOL	ID number: 6814017 Compact Multiprotocol I/O Module for Ethernet 8 IO-Link Master Channels 8 Universal Digital PNP Channels, 2 A, Channel Diagnostics ■ M12 ports for IO-Link Master, 5-pin ■ IO-Link Master Port Class A and Port Class B ■ IO-Link protocol 1.1 Please direct queries to P. Müller/D. Green (Standards)

TBIL-M1-16DXP**ID number: 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

Please direct queries to P. Müller/D. Green (Standards)

FEN20-16DXP**ID number: 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**ID number: 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 – I/O Systems

BL67-GW-EN	ID number: 6827214
	Gateway for BL67 I/O system multiprotocol interface for Ethernet ■ 3 decimal rotary coding switches ■ Protection class IP67 ■ LEDs for display of supply voltage, group and bus errors ■ 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
BL67-4DI-P	ID number: 6827171
	BL67 electronic module 4 digital inputs, PNP ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers ■ 4 digital inputs, 24 VDC ■ PNP switching ■ From version VN 01-03 and higher, the module supports accelerated start-up for applications with Fast Start-Up (FSU) and QuickConnect (QC).
BL67-8DI-P	ID number: 6827170
	BL67 electronic module 8 digital inputs, PNP ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers ■ 8 digital inputs, 24 VDC ■ PNP switching ■ From version VN 01-03 and higher, the module supports accelerated start-up for applications with Fast Start-Up (FSU) and QuickConnect (QC).
BL67-4DO-2A-P	ID number: 6827174
	BL67 electronic module 4 digital outputs, PNP, 2.0 A ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers ■ 4 digital outputs, 24 VDC ■ Max. 2 A ■ PNP switching ■ From version VN 01-07 and higher, the module supports accelerated start-up for applications with Fast Start-Up (FSU) and QuickConnect (QC).
BL67-8DO-0.5A-P	ID number: 6827172
	BL67 electronic module 8 digital outputs, PNP, 0.5 A ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers ■ 8 digital outputs, 24 VDC ■ Max. 0.5 A ■ PNP switching ■ From version VN 01-07 and higher, the module supports accelerated start-up for applications with Fast Start-Up (FSU) and QuickConnect (QC).

BL67-16DO-0.1A-P	ID number: 6827221
	BL67 electronic module 16 digital outputs, PNP, 0.1 A ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers ■ 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 ■ From version VN 01-07 and higher, the module supports accelerated start-up for applications with Fast Start-Up (FSU) and QuickConnect (QC).
BL67-8XSG-P	ID number: 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 ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers ■ 8 configurable digital channels ■ 24 VDC, PNP ■ Max. 0.5 A ■ Adjustable filter times ■ Invertible inputs ■ From version VN 01-01 and higher, the module supports accelerated start-up for applications with Fast Start-Up (FSU) and QuickConnect (QC).
BL67-4IOL	ID number: 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 ■ LEDs indicate status and diagnostic ■ Electronics galvanically separated from the field level via optocouplers ■ 4 IO-Link master acc. to specification V1.1 ■ 4 universal digital channels, PNP, channel diagnostics, 0.5 A
BL67-PF-24VDC	ID number: 6827182
	BL67 electronic module Power feeding module with diagnostics function ■ Independent of the type of fieldbus and connection technology used ■ Protection class IP67 ■ LEDs indicating system status, field supply and diagnostic information ■ Can be used to form potential groups ■ Supplies field with 24 VDC nominal voltage
BL67-E	ID number: 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	ID number: 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 ■ M12 connection technology ■ 5-pin ■ 2 slots ■ Pairwise assignment
BL67-B-4M12-P	ID number: 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 ■ M12 connection technology ■ 5-pin ■ 4 slots ■ Pairwise assignment
BL67-B-1M23-19	ID number: 6827216
	BL67 base module 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 ■ M23 connection technology ■ 19-pin ■ 1 port
BL67-B-1M23	ID number: 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 ■ M23 connection technology ■ 12-pin ■ 1 port
BL67-B-1RSM	ID number: 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 ■ 7/8" connection technology ■ 5-pin ■ Sensor supply ■ Field resp. load voltage supply ■ 1 port

BL20-E-GW-EN	ID number: 6827329
	Multiprotocol interface for Ethernet ■ Protection class IP20 ■ 2 x end brackets BL20-WEW35/2-SW ■ 1 x end plate BL20-ABPL ■ LEDs for display of supply voltage, group and bus errors ■ 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
BL20-E-8DI-24VDC-P	ID number: 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	ID number: 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	ID number: 6827007
	BL20 electronic module Power feeding module with diagnostics function ■ Fieldbus and connection technology independent ■ Protection class IP20 ■ LEDs indicating system status, field supply and diagnostic information ■ Can be used to form potential groups ■ Supplies field with 24 VDC nominal voltage
BL20-P4T-SBBC	ID number: 6827038
	BL20 base module tension spring connection technology ■ 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 ■ Tension spring connection ■ Disc design ■ Access to C rail

Fieldbus Technology – Managed Switch

SE-44M-E924**ID number: 6607004**

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 – Ethernet Spanner

TBEN-L5-EN1**ID number: 6814035**

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



Fieldbus Technology – Turck-Parker Valve Island

Valve Connection with Turck BL67 for EtherNet/IP™

- Always same PLC handling
- Only one EtherNet/IP™ address necessary for more valve manifolds
- Integrated switch
- Quick Connect functionality

BL67 and Parker Valve Adapter	BL67 Multipole Connection	Combination BL67 Multipole Connection and Valve Adapter
Connection to valve adapter: BL67-16DO-0.1A-P	BL67-16DO-0.1A-P with BL67-1M23-12 (up to 32 slices)	Up to 32 BL67 slices for multipole connection
For 16 or 32 outputs on valve adapter	Connection to external devices (Parker, Festo, SMC...) via premoulded 19-pin Turck cable, different cable lengths available	Connection to Parker valve adapter via BL67-16DO-0.1A-P

Fieldbus Technology – Accessories

FLIB-IOM124-0002	ID number: 6825366
	Compact fieldbus stations for INTERBUS 12 digital pnp inputs 4 digital outputs 2 A ■ For robot applications ■ Robust electromechanics ■ High magnetic field immunity ■ Intelligent terminating resistor ■ Module-related diagnostics ■ Fibre-glass reinforced housing ■ Vibration and shock-resistant ■ Encapsulated module electronics ■ Metal connector ■ Degree of protection IP67 Interbus robot module

Machine Safety – Safety I/O Modules

TBIP-L1-FDIO1-2IOL**ID number: 6814056**

Hybrid Module for EtherNet/IP and CIP-Safety
Safe Digital Inputs and Outputs, Standard Universal Digital Channels, IO-Link Master Ports

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

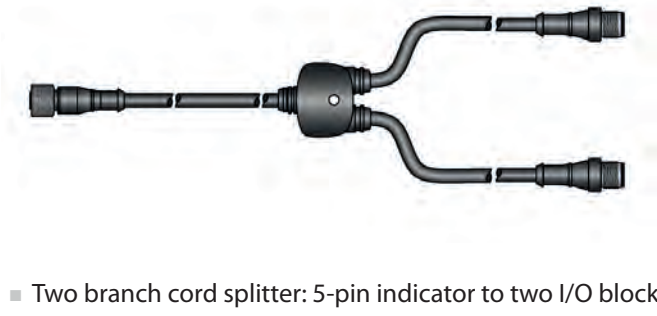


Turck I/O Block Compatible

Splitter Solution – Standard TL50 + Cordset + Separate Splitter



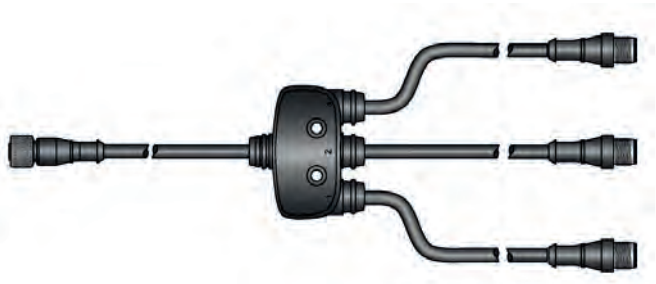
TL50 5-pin M12 QD		2-branch cord	
pin 5	Color 4	branch 2	pin 2
pin 2	Color 3		pin 4
pin 1	Color 2	branch 1	pin 2
pin 4	Color 1		pin 4



- Two branch cord splitter: 5-pin indicator to two I/O block ports
- Female trunk = 0.3 m, male branches = 0.3 m
- CSF-M12F51M12M41
- Cordset: RKC4.5T-*-RSC4.5T/TXL



TL50 8-pin M12 QD		3-branch cord	
pin 8	C6/A	branch 3	pin 2
pin 4	C5/A		pin 4
pin 5	Color 4	branch 2	pin 2
pin 1	Color 3		pin 4
pin 2	Color 2	branch 1	pin 2
pin 6	Color 1		pin 4



- Three branch cord splitter: 8-pin indicator to two I/O block ports
- Female trunk = 0.3 m, male branches = 0.3 m
- CSF3A-M12F81M12M41
- Cordset: RKC8T-*-RSC8T/TXL

Your Global Automation Partner



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