

Your Global Automation Partner

TURCK



Preferred Program
Sensors and Connectivity

The company



The company

Turck is a leading manufacturer in the industrial automation sector. With more than 4800 employees in over 30 countries and with sales partners in a further 60 countries, we are always close to you worldwide. As a specialist in sensor, fieldbus, connection and interface technology, as well as Human Machine Interfaces (HMI) and RFID systems, we offer efficient solutions for factory and process automation. State-of-the-art production facilities in Germany, Switzerland, the USA, Mexico and China enable our family-owned enterprise to meet the requirements of the local markets quickly and flexibly at any time.

The Markets

Whether in mechanical and system engineering, in the automotive, transport and handling, mobile equipment, food and packaging sectors, or in the chemical and pharmaceutical industry: automation solutions and products from Turck increase the availability and efficiency of your machines and plants. The effective standardization of the products also reduces costs for procurement, inventory management, installation and operational reliability selectively. Specific industrial application know-how gained from close dialog with customers, coupled with electronic development and manufacturing at the highest level ensure optimum solutions for your automation tasks.

The Service

With over 50 years of experience and an extensive know-how, we can support you in every project phase with efficient services – from the initial analysis right through to the tailored solution and commissioning of your application. The prime objective of our activities is to continuously improve the efficiency and productivity of your manufacturing process or machine. The excellent quality of our products, combined with the supportive services of our specialists and a fast delivery service, ensures the high availability of your systems.

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Cylindrical and Rectangular Designs



The product portfolio of inductive sensors comprises threaded barrels and rectangular types which cover the entire scope of tasks. The sensors are available in robust M8, M12, M18 and M30 threaded barrels. Of the M8, M12 and M18 designs, the portfolio even includes different lengths. The rectangular inductive sensors are available in the variable 40 × 40 mm housings of the CK40 and the tool-free adjustable QV40 designs. The housing of the rectangular variants is made in the especially abrasion-resistant and chemically resistant plastic PBT.

Features

- Robust housing materials
- High switching distances
- Many connection possibilities
- Many electrical output functions
- Optimal fastening
- Good visible LED

For mains connection, you can choose between 2 m and 7 m Cable as well as between M8 and M12 male connection types.

Type code

N I 50 U - QV40 . - A P 6 X2 - H1 1 4 1

N	I	50	U	Functional Principle	-	QV40	.	Design	-	A	P	6	X2	Electrical Version	-
Special functions U uprox® or uprox®+ or uprox®3 Factor 1 sensors				Rated switching distance 50 Switching distance				Functional principle I Inductive				Installation B Flush N Non-flush			
Additional information EE Extra long-sized housing E Long-sized housing K Short housing KK Short housing				Housing M08 Threaded barrel, brass Ø in [mm] M12 Threaded barrel, brass Ø in [mm] M18 Threaded barrel, brass Ø in [mm] M30 Threaded barrel, brass Ø in [mm] CK40, QV40 Rectangular, 40 × 40, flexible active face				Indication X LED X... Number of LEDs or multicolor LED				Voltage range 4 10...65 VDC, (Ⓚ) 6 10...30 VDC, (Ⓚ)			
Output mode N NPN output P PNP output				Output function A Working current (NO) V Complementary contact											

H1	1	4	1	Electrical Connection: Connector	...M	Electrical Connection: Cable
Assignment 1 Standard assignment other: customized				Connection ...M Cable length [m]		
Number of contacts ... Number of contacts						
Connector type 1 Straight 3 Straight, with adapter						
Connector type H1 M12 × 1 connector V1 M8 × 1 connector						

M8 – 3-Wire DC



General data

Operating voltage	10...30 VDC	Switching element function	NO contact
Ambient temperature	-25...+70 °C	Protection class	IP67
Indicator	LED	Housing material	CuZn
Design	M8 × 1	Active area material	Plastic, PP-GF20

Types and Data – Selection table

Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI2-M08-AP6X	4602901	2 mm,	NO contact, PNP	2 m Cable	8 x 32.1	w001	d001
BI2-M08-AN6X	4602926	2 mm,	NO contact, NPN	2 m Cable	8 x 32.1	w002	d001
BI2-M08E-AN6X	4602951	2 mm,	NO contact, NPN	2 m Cable	8 x 42.1	w002	d002
BI2-M08E-AP6X	4602954	2 mm,	NO contact, PNP	2 m Cable	8 x 42.1	w001	d002
BI2-M08K-AN6X	4602963	2 mm,	NO contact, NPN	2 m Cable	8 x 24.1	w002	d003
BI2-M08K-AP6X	4602966	2 mm,	NO contact, PNP	2 m Cable	8 x 24.1	w001	d003
BI2-M08-AN6X-V1131	4602927	2 mm,	NO contact, NPN	Connectors, M8 × 1	8 x 39.7	w003	d004
BI2-M08-AP6X-V1131	4602903	2 mm,	NO contact, PNP	Connectors, M8 × 1	8 x 39.7	w004	d004
BI2-M08E-AN6X-V1131	4602953	2 mm,	NO contact, NPN	Connectors, M8 × 1	8 x 49.7	w003	d005
BI2-M08E-AP6X-V1131	4602956	2 mm,	NO contact, PNP	Connectors, M8 × 1	8 x 49.7	w004	d005
BI2-M08K-AN6X-V1131	4602965	2 mm,	NO contact, NPN	Connectors, M8 × 1	8 x 31.7	w003	d006
BI2-M08K-AP6X-V1131	4602968	2 mm,	NO contact, PNP	Connectors, M8 × 1	8 x 31.7	w004	d006
NI3-M08-AN6X	4602932	3 mm,	NO contact, NPN	2 m Cable	8 x 32.1	w002	d007
NI3-M08-AP6X	4602929	3 mm,	NO contact, PNP	2 m Cable	8 x 32.1	w001	d007
NI3-M08E-AN6X	4602831	3 mm,	NO contact, NPN	2 m Cable	8 x 42.1	w002	d008
NI3-M08E-AP6X	4602834	3 mm,	NO contact, PNP	2 m Cable	8 x 42.1	w001	d008
NI3-M08K-AN6X	4602847	3 mm,	NO contact, NPN	2 m Cable	8 x 24.1	w002	d009
NI3-M08K-AP6X	4602851	3 mm,	NO contact, PNP	2 m Cable	8 x 24.1	w001	d009
NI3-M08-AP6X-V1131	4602930	3 mm,	NO contact, PNP	Connectors, M8 × 1	8 x 39.7	w004	d010
NI3-M08-AN6X-V1131	4602933	3 mm,	NO contact, NPN	Connectors, M8 × 1	8 x 39.7	w003	d010
NI3-M08E-AN6X-V1131	4602833	3 mm,	NO contact, NPN	Connectors, M8 × 1	8 x 49.7	w003	d011
NI3-M08E-AP6X-V1131	4602836	3 mm,	NO contact, PNP	Connectors, M8 × 1	8 x 49.7	w004	d011
NI3-M08K-AN6X-V1131	4602849	3 mm,	NO contact, NPN	Connectors, M8 × 1	8 x 31.7	w003	d012
NI3-M08K-AP6X-V1131	4602853	3 mm,	NO contact, PNP	Connectors, M8 × 1	8 x 31.7	w004	d012

M8 – 4-Wire DC



General data

Operating voltage	10...30 VDC	Switching element function	Complementary contact
Ambient temperature	-25...+70 °C	Protection class	IP67
Indicator	LED	Housing material	CuZn
Design	M8 × 1	Active area material	Plastic, PP-GF20

Types and Data – Selection table

Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI2-M08-VN6X 7M	4602806	2 mm,	Complementary contact, NPN	7 m Cable	8 x 32.1	w005	d001
BI2-M08-VP6X 7M	4602810	2 mm,	Complementary contact, PNP	7 m Cable	8 x 32.1	w006	d001
BI2-M08E-VN6X 7M	4602957	2 mm,	Complementary contact, NPN	7 m Cable	8 x 42.1	w005	d002
BI2-M08E-VP6X 7M	4602960	2 mm,	Complementary contact, PNP	7 m Cable	8 x 42.1	w006	d002
BI2-M08K-VN6X 7M	4602969	2 mm,	Complementary contact, NPN	7 m Cable	8 x 24.1	w005	d003
BI2-M08K-VP6X 7M	4602803	2 mm,	Complementary contact, PNP	7 m Cable	8 x 24.1	w006	d003
BI2-M08-VN6X-H1341	4602808	2 mm,	Complementary contact, NPN	Connectors, M12 × 1	8 x 47.6	w007	d013
BI2-M08-VP6X-H1341	4602811	2 mm,	Complementary contact, PNP	Connectors, M12 × 1	8 x 47.6	w008	d013
BI2-M08E-VN6X-H1341	4602958	2 mm,	Complementary contact, NPN	Connectors, M12 × 1	8 x 57.6	w007	d014
BI2-M08E-VP6X-H1341	4602961	2 mm,	Complementary contact, PNP	Connectors, M12 × 1	8 x 57.6	w008	d014
BI2-M08K-VN6X-H1341	4602801	2 mm,	Complementary contact, NPN	Connectors, M12 × 1	8 x 39.6	w007	d015
BI2-M08K-VP6X-H1341	4602804	2 mm,	Complementary contact, PNP	Connectors, M12 × 1	8 x 39.6	w008	d015
NI3-M08E-VN6X 7M	4602837	3 mm,	Complementary contact, NPN	7 m Cable	8 x 42.1	w005	d008
NI3-M08E-VP6X 7M	4602844	3 mm,	Complementary contact, PNP	7 m Cable	8 x 42.1	w006	d008
NI3-M08K-VN6X 7M	4602854	3 mm,	Complementary contact, NPN	7 m Cable	8 x 24.1	w005	d009
NI3-M08K-VP6X 7M	4602857	3 mm,	Complementary contact, PNP	7 m Cable	8 x 24.1	w006	d009
NI3-M08-VN6X-H1341	4602863	3 mm,	Complementary contact, NPN	Connectors, M12 × 1	8 x 47.6	w007	d016
NI3-M08-VP6X-H1341	4602866	3 mm,	Complementary contact, PNP	Connectors, M12 × 1	8 x 47.6	w008	d016
NI3-M08E-VN6X-H1341	4602838	3 mm,	Complementary contact, NPN	Connectors, M12 × 1	8 x 57.6	w007	d017
NI3-M08E-VP6X-H1341	4602845	3 mm,	Complementary contact, PNP	Connectors, M12 × 1	8 x 57.6	w008	d017
NI3-M08K-VN6X-H1341	4602855	3 mm,	Complementary contact, NPN	Connectors, M12 × 1	8 x 39.6	w007	d018
NI3-M08K-VP6X-H1341	4602858	3 mm,	Complementary contact, PNP	Connectors, M12 × 1	8 x 39.6	w008	d018

M12 – 3-Wire DC



General data

Operating voltage	10...30 VDC	Switching element function	NO contact
Ambient temperature	-25...+70 °C	Protection class	IP67
Indicator	LED	Housing material	CuZn, Chrome-plated
Design	M12 × 1	Active area material	Plastic, PA12-GF30

Types and Data – Selection table

Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI2-M12-AP6X	46050	2 mm,	NO contact, PNP	2 m Cable	12 x 54	w001	d019
BI2-M12-AN6X	46051	2 mm,	NO contact, NPN	2 m Cable	12 x 54	w002	d019
BI2-M12-AP6X-H1141	46065	2 mm,	NO contact, PNP	Connectors, M12 × 1	12 x 52	w004	d020
BI2-M12-AN6X-H1141	46066	2 mm,	NO contact, NPN	Connectors, M12 × 1	12 x 52	w003	d020
BI4-M12-AP6X	4607006	4 mm,	NO contact, PNP	2 m Cable	12 x 54	w001	d019
BI4-M12-AP6X 7M	4607012	4 mm,	NO contact, PNP	7 m Cable	12 x 54	w001	d019
BI4-M12-AN6X	4607130	4 mm,	NO contact, NPN	2 m Cable	12 x 54	w002	d019
BI4-M12-AN6X 7M	4607131	4 mm,	NO contact, NPN	7 m Cable	12 x 54	w002	d019
BI4-M12-AP6X-H1141	46070	4 mm,	NO contact, PNP	Connectors, M12 × 1	12 x 52	w004	d020
BI4-M12-AN6X-H1141	46071	4 mm,	NO contact, NPN	Connectors, M12 × 1	12 x 52	w003	d020
NI8-M12-AP6X-H1141	4611310	8 mm,	NO contact, PNP	Connectors, M12 × 1	12 x 52	w004	d021
NI8-M12-AN6X-H1141	4611315	8 mm,	NO contact, NPN	Connectors, M12 × 1	12 x 52	w003	d021

M12 – 4-Wire DC










General data

Operating voltage	10...30 VDC	Switching element function	Complementary contact
Ambient temperature	-25...+70 °C	Protection class	IP67
Indicator	LED	Housing material	CuZn, Chrome-plated
Design	M12 × 1	Active area material	Plastic, PA12-GF30

Types and Data – Selection table

Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI4-M12-VP6X	1633300	4 mm,	Complementary contact, PNP	2 m Cable	12 x 54	w006	d019
BI4-M12-VP6X 7M	1633301	4 mm,	Complementary contact, PNP	7 m Cable	12 x 54	w006	d019
BI4-M12-VN6X	1643300	4 mm,	Complementary contact, NPN	2 m Cable	12 x 54	w005	d019
BI4-M12-VN6X 7M	1643301	4 mm,	Complementary contact, NPN	7 m Cable	12 x 54	w005	d019
BI4-M12-VP6X-H1141	1633200	4 mm,	Complementary contact, PNP	Connectors, M12 × 1	12 x 52	w008	d020













Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI4-M12-VN6X-H1141	1643200	4 mm, 	Complementary contact, NPN	Connectors, M12 x 1	12 x 52	w007	d020
BI4-M12E-VP6X-H1141	4608031	4 mm, 	Complementary contact, PNP	Connectors, M12 x 1	12 x 62	w008	d022
BI4-M12E-VN6X-H1141	1643201	4 mm, 	Complementary contact, NPN	Connectors, M12 x 1	12 x 62	w007	d022
NI8-M12-VP6X 7M	4611327	8 mm, 	Complementary contact, PNP	7 m Cable	12 x 54	w006	d023
NI8-M12-VN6X 7M	4611326	8 mm, 	Complementary contact, NPN	7 m Cable	12 x 54	w005	d023
NI8-M12-VP6X-H1141	4611324	8 mm, 	Complementary contact, PNP	Connectors, M12 x 1	12 x 52	w008	d021
NI8-M12-VN6X-H1141	4611323	8 mm, 	Complementary contact, NPN	Connectors, M12 x 1	12 x 52	w007	d021

M18 – 3-Wire DC

General data			
Operating voltage	10...30 VDC	Switching element function	NO contact
Ambient temperature	-25...+70 °C	Protection class	IP67
Indicator	LED	Housing material	CuZn, Chrome-plated
Design	M18 x 1	Active area material	Plastic, PA12-GF30



Types and Data – Selection table

Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI5-M18-AP6X	46110	5 mm, 	NO contact, PNP	2 m Cable	18 x 54	w001	d024
BI5-M18-AN6X	46111	5 mm, 	NO contact, NPN	2 m Cable	18 x 54	w002	d024
BI5-M18-AP6X-H1141	46145	5 mm, 	NO contact, PNP	Connectors, M12 x 1	18 x 52	w004	d025
BI5-M18-AN6X-H1141	46146	5 mm, 	NO contact, NPN	Connectors, M12 x 1	18 x 52	w003	d025
BI8-M18-AP6X	4615030	8 mm, 	NO contact, PNP	2 m Cable	18 x 54	w001	d024
BI8-M18-AP6X 7M	4615031	8 mm, 	NO contact, PNP	7 m Cable	18 x 54	w001	d024
BI8-M18-AN6X	4615130	8 mm, 	NO contact, NPN	2 m Cable	18 x 54	w002	d024
BI8-M18-AN6X 7M	4615131	8 mm, 	NO contact, NPN	7 m Cable	18 x 54	w002	d024
BI8-M18-AP6X-H1141	46150	8 mm, 	NO contact, PNP	Connectors, M12 x 1	18 x 52	w004	d025
BI8-M18-AN6X-H1141	4615100	8 mm, 	NO contact, NPN	Connectors, M12 x 1	18 x 52	w003	d025
NI14-M18-AP6X-H1141	4611400	14 mm, 	NO contact, PNP	Connectors, M12 x 1	18 x 52	w004	d026
NI14-M18-AN6X-H1141	4611410	14 mm, 	NO contact, NPN	Connectors, M12 x 1	18 x 52	w003	d026

M18 – 4-Wire DC



General data

Operating voltage	10...30 VDC	Switching element function	Complementary contact
Ambient temperature	-25...+70 °C	Protection class	IP67
Indicator	LED	Housing material	CuZn, Chrome-plated
Design	M18 × 1	Active area material	Plastic, PA12-GF30

Types and Data – Selection table

Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI8-M18-VP6X	4605154	8 mm,	Complementary contact, PNP	2 m Cable	18 x 54	w006	d024
BI8-M18-VP6X 7M	4590706	8 mm,	Complementary contact, PNP	7 m Cable	18 x 54	w006	d024
BI8-M18-VN6X	4605155	8 mm,	Complementary contact, NPN	2 m Cable	18 x 54	w005	d024
BI8-M18-VN6X 7M	4590705	8 mm,	Complementary contact, NPN	7 m Cable	18 x 54	w005	d024
BI8-M18-VP6X-H1141	4605156	8 mm,	Complementary contact, PNP	Connectors, M12 × 1	18 x 52	w008	d025
BI8-M18-VN6X-H1141	4605157	8 mm,	Complementary contact, NPN	Connectors, M12 × 1	18 x 52	w007	d025
BI8-M18E-VP6X-H1141	4605226	8 mm,	Complementary contact, PNP	Connectors, M12 × 1	18 x 72	w008	d027
BI8-M18E-VN6X-H1141	4605227	8 mm,	Complementary contact, NPN	Connectors, M12 × 1	18 x 72	w007	d027
NI14-M18-VP6X 7M	4590610	14 mm,	Complementary contact, PNP	7 m Cable	18 x 54	w006	d028
NI14-M18-VN6X 7M	4590609	14 mm,	Complementary contact, NPN	7 m Cable	18 x 54	w005	d028
NI14-M18-VP6X-H1141	4590620	14 mm,	Complementary contact, PNP	Connectors, M12 × 1	18 x 52	w008	d026
NI14-M18-VN6X-H1141	4690630	14 mm,	Complementary contact, NPN	Connectors, M12 × 1	18 x 52	w007	d026

M30 – 3-Wire DC










General data

Operating voltage	10...30 VDC	Switching element function	NO contact
Ambient temperature	-25...+70 °C	Protection class	IP67
Indicator	LED	Housing material	CuZn, Chrome-plated
Design	M30 × 1.5	Active area material	Plastic, PA12-GF30


Types and Data – Selection table

Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI10-M30-AP6X	46170	10 mm,	NO contact, PNP	2 m Cable	30 x 64	w001	d029
BI10-M30-AN6X	46171	10 mm,	NO contact, NPN	2 m Cable	30 x 64	w002	d029
BI10-M30-AP6X-H1141	46175	10 mm,	NO contact, PNP	Connectors, M12 × 1	30 x 62	w004	d030
BI10-M30-AN6X-H1141	46176	10 mm,	NO contact, NPN	Connectors, M12 × 1	30 x 62	w003	d030
BI15-M30-AP6X	4618530	15 mm,	NO contact, PNP	2 m Cable	30 x 64	w001	d029











Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI15-M30-AP6X 7M	4618532	15 mm, 	NO contact, PNP	7 m Cable	30 x 64	w001	d029
BI15-M30-AN6X	4618620	15 mm, 	NO contact, NPN	2 m Cable	30 x 64	w002	d029
BI15-M30-AN6X 7M	4618621	15 mm, 	NO contact, NPN	7 m Cable	30 x 64	w002	d029
BI15-M30-AP6X-H1141	46185	15 mm, 	NO contact, PNP	Connectors, M12 x 1	30 x 62	w004	d030
BI15-M30-AN6X-H1141	4618600	15 mm, 	NO contact, NPN	Connectors, M12 x 1	30 x 62	w003	d030
NI20-M30-AP6X-H1141	4670510	20 mm, 	NO contact, PNP	Connectors, M12 x 1	30 x 62	w004	d031
NI20-M30-AN6X-H1141	4670515	20 mm, 	NO contact, NPN	Connectors, M12 x 1	30 x 62	w003	d031

M30 – 4-Wire DC

General data			
Operating voltage	10...30 VDC	Switching element function	Complementary contact
Ambient temperature	-25...+70 °C	Protection class	IP67
Indicator	LED	Housing material	CuZn, Chrome-plated
Design	M30 x 1.5	Active area material	Plastic, PA12-GF30



Types and Data – Selection table

Type	Ident. no.	Switching distance	Output	Electrical connection	Dimensions [mm]	w	d
BI15-M30-VP6X	4590716	15 mm, 	Complementary contact, PNP	2 m Cable	30 x 64	w006	d029
BI15-M30-VP6X 7M	4590715	15 mm, 	Complementary contact, PNP	7 m Cable	30 x 64	w006	d029
BI15-M30-VN6X	4590717	15 mm, 	Complementary contact, NPN	2 m Cable	30 x 64	w005	d029
BI15-M30-VN6X 7M	4590714	15 mm, 	Complementary contact, NPN	7 m Cable	30 x 64	w005	d029
BI15-M30-VP6X-H1141	4590718	15 mm, 	Complementary contact, PNP	Connectors, M12 x 1	30 x 62	w008	d030
BI15-M30-VN6X-H1141	4590719	15 mm, 	Complementary contact, NPN	Connectors, M12 x 1	30 x 62	w007	d030
NI20-M30-VP6X 7M	4590611	20 mm, 	Complementary contact, PNP	7 m Cable	30 x 64	w006	d032
NI20-M30-VN6X 7M	4590613	20 mm, 	Complementary contact, NPN	7 m Cable	30 x 64	w005	d032
NI20-M30-VP6X-H1141	4590612	20 mm, 	Complementary contact, PNP	Connectors, M12 x 1	30 x 62	w008	d031
NI20-M30-VN6X-H1141	4590614	20 mm, 	Complementary contact, NPN	Connectors, M12 x 1	30 x 62	w007	d031

CK40 – 4-Wire DC



General data			
Switching distance	50 mm,	Electrical connection	Connectors, M12 x 1
Operating voltage	10...65 VDC	Dimensions	40 x 40 x 65 mm
Ambient temperature	-30...+85 °C	Protection class	IP68
Power-on indication	2 x LEDs	Housing material	PBT-GF20-V0
Indicator	2 x LEDs	Active area material	Plastic, PA12-GF30, yellow
Design	CK40		d033
Switching element function	Complementary contact		

Types and Data – Selection table

Type	Ident. no.	Output	
NI50U-CK40-VP4X2-H1141	1538302	Complementary contact, PNP	w008
NI50U-CK40-VN4X2-H1141	1625806	Complementary contact, NPN	w007

Variable orientation of active face in 5 directions

QV40 – 3-Wire DC



General data			
Switching distance	50 mm,	Electrical connection	Connectors, M12 x 1
Operating voltage	10...30 VDC	Dimensions	40 x 40 x 65 mm
Ambient temperature	-30...+85 °C	Protection class	IP68
Power-on indication	2 x LEDs	Housing material	PBT-GF30-V0
Indicator	2 x LEDs	Active area material	Plastic, PA6-GF30-X, yellow
Design	QV40		d034
Switching element function	NO contact		

Types and Data – Selection table

Type	Ident. no.	Output	
NI50U-QV40-AP6X2-H1141	1625853	NO contact, PNP	w004
NI50U-QV40-AN6X2-H1141	1625865	NO contact, NPN	w003

Variable orientation of active face in 5 directions without tools

UNT Design

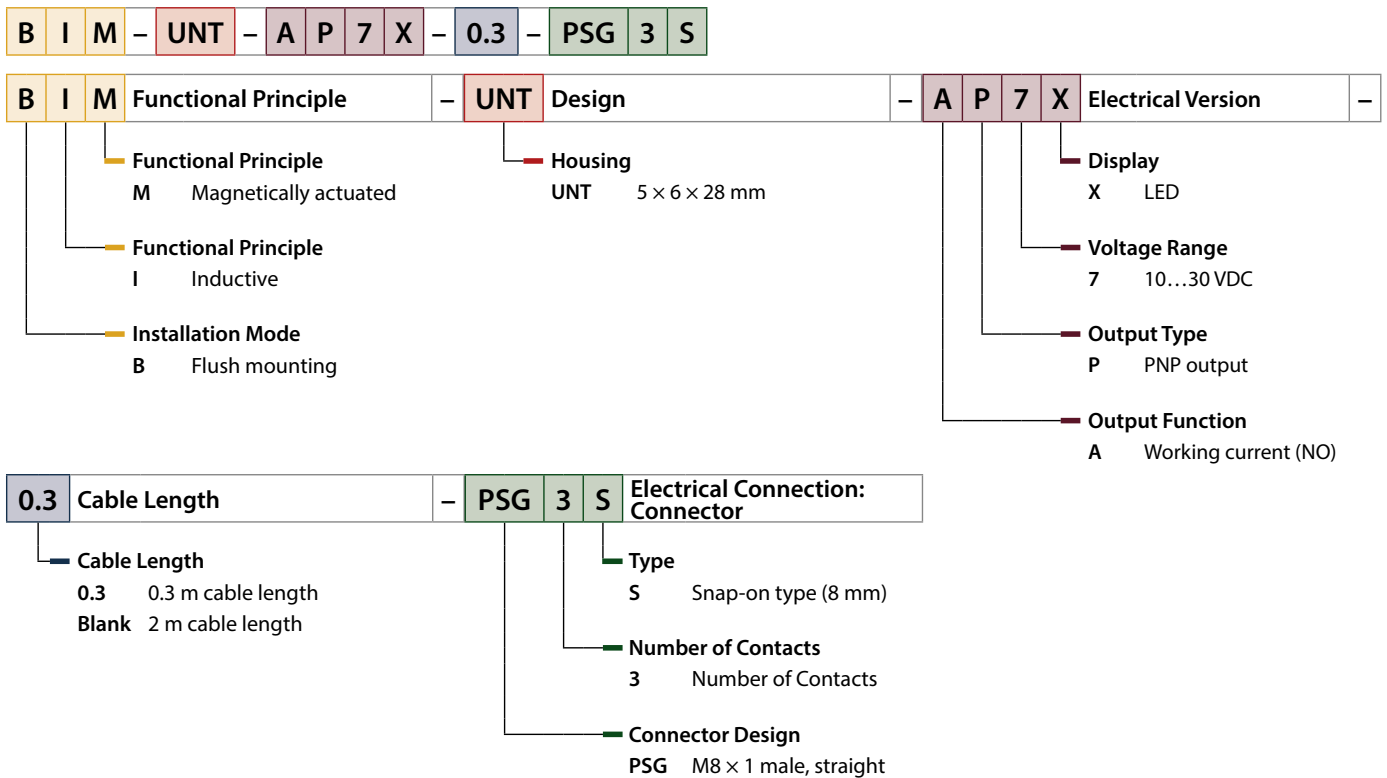


The universal magnetic field sensors of the series UNT are especially compact and characterized above all by a fast and flexible installation. Thanks to the pre-fixation lip, they fit on T-groove cylinders and can even be mounted overhead with one hand only and without tools. With the optionally available accessories you can also mount them on round, tie-rod and dovetail cylinders. The bright and all-round visible LED allows to see the switching state from any perspective.


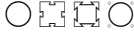

Features

- Compact design
- Fast and flexible installation
- Stable mounting on T-groove cylinders without mounting accessories
- Mounting accessories for mounting on all conventional pneumatic cylinders
- Tool for fine adjustments and stopper directly mountable on the sensor
- 2 m connection cable or 0.3 m cable with connector, M8 × 1
- Excellent EMC immunity
- Good visible LED

Type code


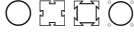



UNT - 3-Wire DC - Cable Connection

General data			
Type	BIM-UNT-AP7X	Switching element function	NO contact
Ident. no.	4685740	Electrical connection	2 m Cable
Output	NO contact, PNP	Dimensions	5 x 6 x 28 mm
Operating voltage	10...30 VDC	Protection class	IP67
Ambient temperature	-25...+70 °C	Housing material	PP
Indicator	LED	Active area material	Plastic, PP
Design	UNT		w001
Cylindrical design			d035



UNT - 3-Wire DC - Cable With Connector Ø 8 mm

General data			
Type	BIM-UNT-AP7X-0.3-PSG3S	Switching element function	NO contact
Ident. no.	4685742	Electrical connection	0.3 m Cable with connector, Ø 8 mm
Output	NO contact, PNP	Dimensions	5 x 6 x 28 mm
Operating voltage	10...30 VDC	Protection class	IP67
Ambient temperature	-25...+70 °C	Housing material	PP
Indicator	LED	Active area material	Plastic, PP
Design	UNT		w004
Cylindrical design			d036



Connectivity



Turck offers standardized and customized solutions for all requirements of harsh industrial environments. The portfolio of recommended products includes pre-assembled M8 × 1 and M12 × 1 female and male connectors as well as connection and extension Cable, 4-port and 8-port junctions, Y-splitters and block junctions in the designs M8 × 1 and M12 × 1. Field-wireable connectors round off the portfolio, allowing you to use them with existing Cable. There is a connector for virtually every Turck sensor available.

As a universal product series, the TEL (PVC) and TXL (PUR) connection and Extension Cable effectively reduce the effort required for installation and stock-keeping. Both the M12 × 1 and M8 × 1 variants are offered as straight and angled female and male connectors.

For the connection to Industrial Ethernet, the recommended portfolio of Turck products offers connection and extension Cable in the designs M8, M12 and RJ45. All Ethernet Cable are available as 4414 And 4416 variants.

Type Code – M8

P	K	G	V	3	M	-	P7X2	-	5	-	*	/	TXL
P	K	G	V	3	M	Grip Body	-	P7X2	LED	-	5	Cable Length	-
						Lock M Metric S Snap-on Z Snap-on, with pull-off protection					LED blank Without LED P7X2 2 PNP LED, Pin 4 = YE, Power = GN N7X2 NPN LED, Pin 4 = YE, Power = GN	Cable length [m] 5 5 mm	
						Pins and wires 3 3-pin 3-wire 4 4-pin 4-wire					* Wildcard Connection Cable	/ TXL Cable Quality	
						Coupling nut blank Nickel-plated brass V Stainless steel H Hygienic design (incl. VA nut) S Nut nickel-plated brass, shield					Wildcard connection cable blank Connection cable PSGV3M Extension cable: connector type (example), see „Grip Body“	Cable quality TXL PUR, black, halogen-free TXG PUR, grey, halogen-free TXO PUR, orange, halogen-free TXY PUR, yellow, halogen-free TEL PVC, black TEG PVC, grey TEY PVC, yellow TFE PVC, grey (Food and Beverage) TFW PP, white, halogen-free (Food and Beverage) TFG PP, white, halogen-free (Food and Beverage)	
						Alignment G Straight W Angled							
						Version K Female S Male							
						Connector M8/Ø 8 mm							

Type Code – M12

R **K** **C** **V** **4** **T** - **P7X2** - **5** - ***** / **TXL**

R **K** **C** **V** **4** **T** Grip Body - **P7X2** LED - **5** Cable Length -

- Version with anti-kink sleeve
 - T Sleeve
 - Q Quick Connect

Pins and wires

- 4 4-pin 3-wire
- 4.4 4-pin 4-wire
- 4.5 5-pin 5-wire
Pin 5 = GY
- 5 5-pin 5-wire
Pin 5 = GNYE

Coupling nut

- blank Nickel-plated brass
- V Stainless steel

Design

- C Standard
- S Shield on coupling nut
- H Hygienic design (incl VA nut)

Version

- K Female
- S Male

Alignment

- R M12, straight
- W M12, angled

LED

- blank Without LED
- P7X2 2 PNP LED, Pin 4 = YE
Power = GN
- P7X3 3 PNP LED, Pin 2 = YE,
Pin 4 = YE
- P7X3.1 3 PNP LED, Pin 2 = RD, Pin
4 = YE, Power = GN
- P7X3.2 3 PNP LED, Pin 2 = WH, Pin
4 = YE, Power = GN
- N7X... NPN, LED, Number and
Color analog P7X...

Cable length [m]

- 5 5 m
- m

***** Wildcard Connection Cable / **TXL** Cable Quality

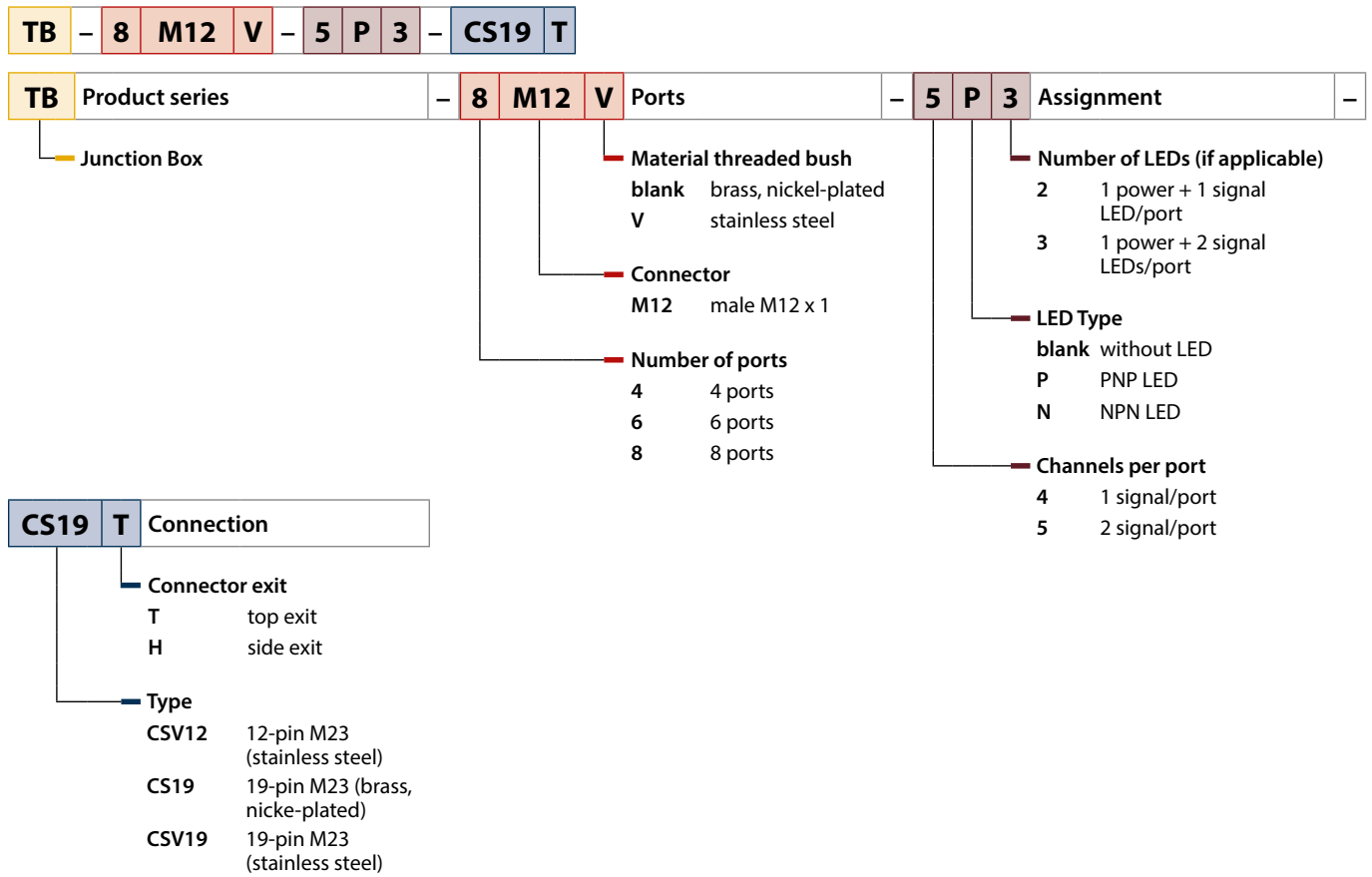
Wildcard connection cable

- blank Connection cable
- RSCV4T Extension cable: connector
type (example), see "Grip Body"

Cable quality

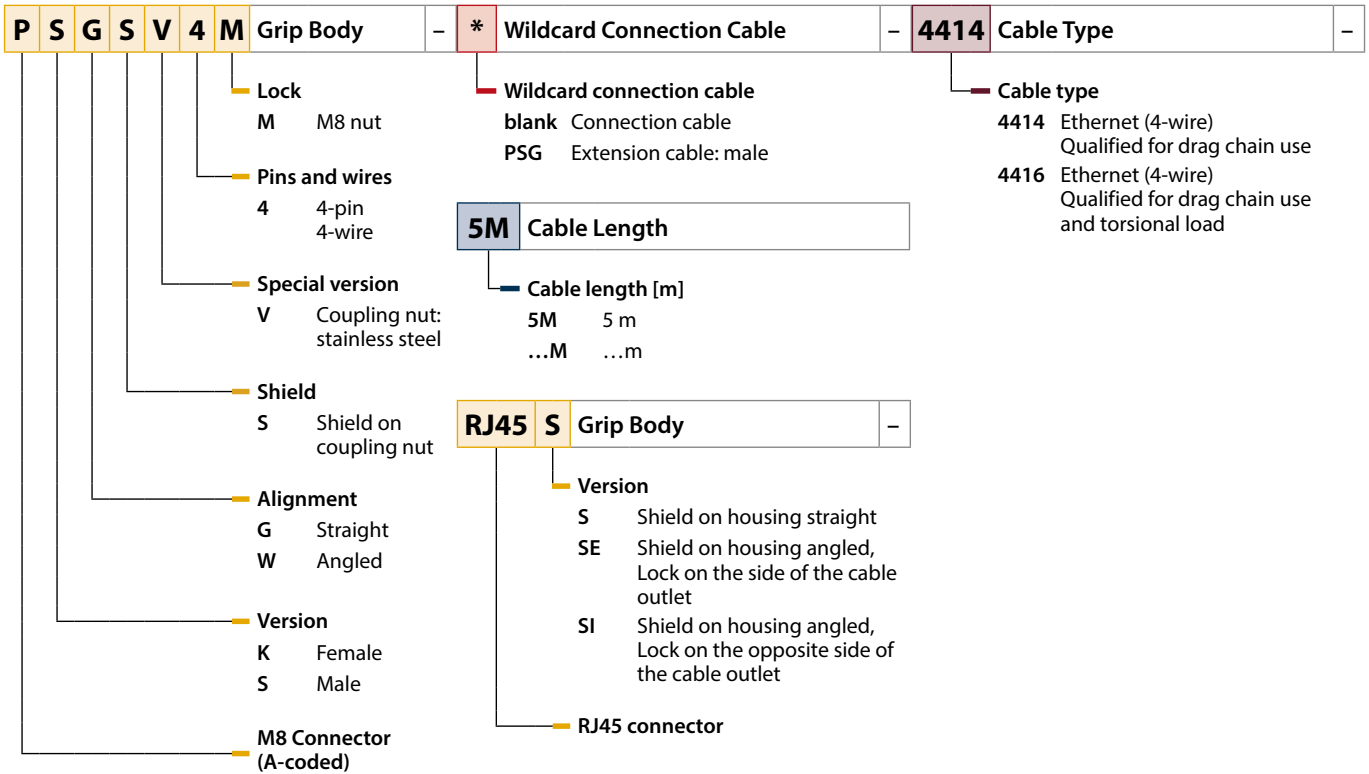
- TXB PUR, blue (NAMUR)
- TXL PUR, black, halogen-free
- TXG PUR, grey, halogen-free
- TXO PUR, orange, halogen-free
- TXY PUR, yellow, halogen-free
- TEB PVC, blue (NAMUR)
- TEL PVC, black
- TEG PVC, grey
- TEY PVC, yellow
- TFE PVC, grey (Food and Beverage)
- TFG PP, white, halogen-free
(Food and Beverage)
- TFW PP, white, halogen-free
(Food and Beverage)

Type Code – Junction Box

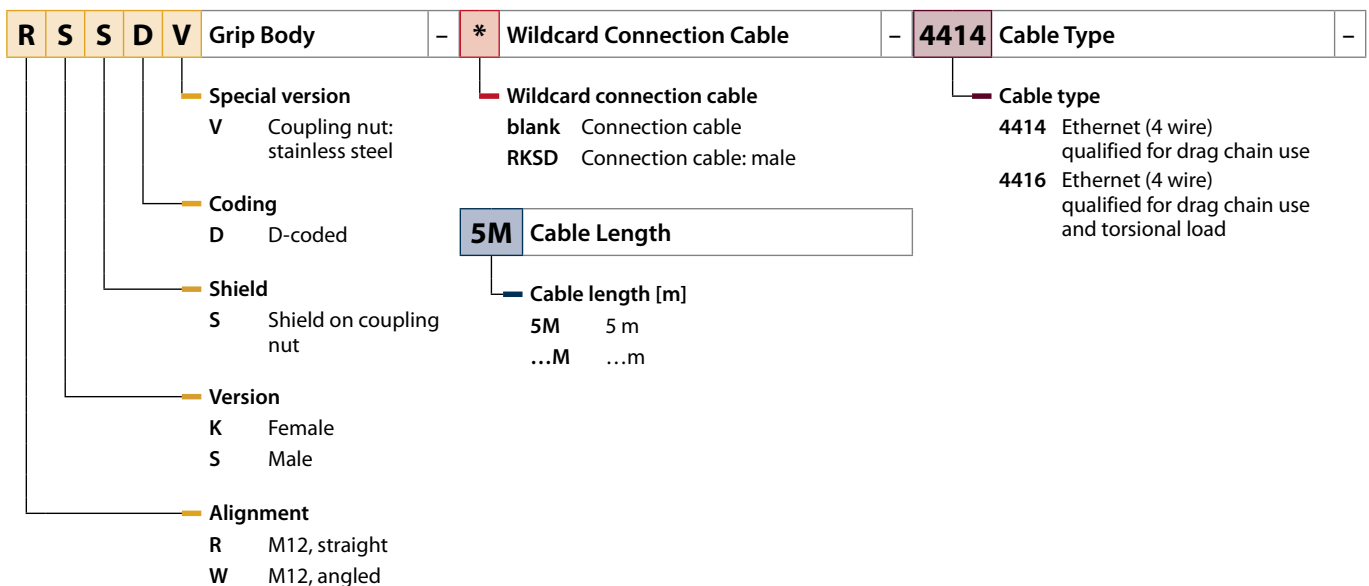


Type Code – Ethernet

P S G S V 4 M - * - 4414 - 5M



R S S D V - * - 4414 - 5M



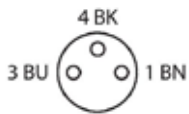
PVC Cable – Black



- 3 and 4-pin
- Resistant to alkaline solutions, chemicals and oils
- Resistant to microbes and hydrolysis
- Flame-retardant and free from LABS
- cULus approved



Female, 3-pin



Male, 3-pin



Female, 4-pin



Male, 4-pin



Connector	
Connector body	Plastic, TPU, Black
Contacts	Brass, CuZn, Gold-plated
Contact carriers	TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Cable	
Core insulation	PVC
Arrangement of strands	42 x 0.1
Electrical properties at +20 °C	
Current load	4 A
Insulation resistance	30.5 MΩ/km
Test voltage	2000 V
forward resistance	57 Ω/km
Mechanical and chemical properties	
Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø
Ambient temperature	
Stationary usage	-40...+105 °C
Non-stationary usage	0...+80 °C

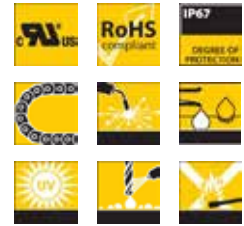
Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	3	4.7	2	3 x 0.34	6625058	PKG3M-2/TEL
	3	4.7	5	3 x 0.34	6625059	PKG3M-5/TEL
	3	4.7	10	3 x 0.34	6625060	PKG3M-10/TEL
	4	5	2	4 x 0.34	6625061	PKG4M-2/TEL
	4	5	5	4 x 0.34	6625062	PKG4M-5/TEL
	4	5	10	4 x 0.34	6625063	PKG4M-10/TEL
	3	4.7	2	3 x 0.34	6625064	PKW3M-2/TEL
	3	4.7	5	3 x 0.34	6625065	PKW3M-5/TEL
	3	4.7	10	3 x 0.34	6625066	PKW3M-10/TEL
	4	5	2	4 x 0.34	6625067	PKW4M-2/TEL
	4	5	5	4 x 0.34	6625068	PKW4M-5/TEL
	4	5	10	4 x 0.34	6625069	PKW4M-10/TEL
	3	4.7	0.3	3 x 0.34	6625300	PKG3M-0.3-PSG3M/TEL
	3	4.7	0.6	3 x 0.34	6625301	PKG3M-0.6-PSG3M/TEL
	3	4.7	1	3 x 0.34	6625302	PKG3M-1-PSG3M/TEL
	3	4.7	2	3 x 0.34	6625303	PKG3M-2-PSG3M/TEL
	3	4.7	5	3 x 0.34	6626547	PKG3M-5-PSG3M/TEL
	4	5	0.6	4 x 0.34	6625306	PKG4M-0.6-PSG4M/TEL
	4	5	1	4 x 0.34	6625307	PKG4M-1-PSG4M/TEL
	4	5	2	4 x 0.34	6625308	PKG4M-2-PSG4M/TEL
	4	5	5	4 x 0.34	6626491	PKG4M-5-PSG4M/TEL

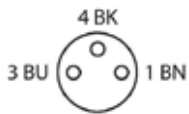
PUR Cable – Black



- 3-pin
- Qualified for drag chain use and flame-retardant
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- cULus approved



Female, 3-pin



Male, 3-pin



Connector	
Connector body	Plastic, TPU, Black
Contacts	Brass, CuZn, Gold-plated
Contact carriers	TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Cable	
Core insulation	PP
Core cross-section	3 x 0.34
Arrangement of strands	42 x 0.1
Electrical properties at +20 °C	
Current load	4 A
Rated voltage	60 V
Insulation resistance	30.5 MΩ/km
Test voltage	2000 V
forward resistance	57 Ω/km
Mechanical and chemical properties	
Bending cycles	> 5 million
Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 m/s ²)
Admissible travel path, vertical	2 m (at 5 m/s ²)
Admissible traversing speed	3.3 m/s
Torsional stress	± 180 °/m
Ambient temperature	
Stationary usage	-50...+80 °C
Non-stationary usage	-25...+80 °C
Drag chain operation	-25...+60 °C

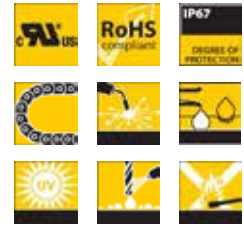
Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	3	4.3	2	3 x 0.34	6625550	PKG3M-2/TXL
	3	4.3	5	3 x 0.34	6625551	PKG3M-5/TXL
	3	4.3	10	3 x 0.34	6625552	PKG3M-10/TXL
	3	4.3	2	3 x 0.34	6625556	PKW3M-2/TXL
	3	4.3	5	3 x 0.34	6625557	PKW3M-5/TXL
	3	4.3	10	3 x 0.34	6625558	PKW3M-10/TXL
	3	4.3	2	3 x 0.34	6626202	PKW3M-P7X2-2/TXL
	3	4.3	5	3 x 0.34	6626206	PKW3M-P7X2-5/TXL
	3	4.3	10	3 x 0.34	6626210	PKW3M-P7X2-10/TXL
	3	4.3	2	3 x 0.34	6625562	PSG3M-2/TXL
	3	4.3	5	3 x 0.34	6625563	PSG3M-5/TXL
	3	4.3	10	3 x 0.34	6625564	PSG3M-10/TXL
	3	4.3	0.3	3 x 0.34	6625665	PKG3M-0.3-PSG3M/TXL
	3	4.3	0.6	3 x 0.34	6625666	PKG3M-0.6-PSG3M/TXL
	3	4.3	1	3 x 0.34	6625667	PKG3M-1-PSG3M/TXL
	3	4.3	1.5	3 x 0.34	6627117	PKG3M-1.5-PSG3M/TXL
	3	4.3	2	3 x 0.34	6625668	PKG3M-2-PSG3M/TXL
	3	4.3	5	3 x 0.34	6627147	PKG3M-5-PSG3M/TXL
	3	4.3	0.3	3 x 0.34	6627098	PKW3M-0.3-PSG3M/TXL
	3	4.3	0.6	3 x 0.34	6627101	PKW3M-0.6-PSG3M/TXL
	3	4.3	1	3 x 0.34	6627110	PKW3M-1-PSG3M/TXL
	3	4.3	2	3 x 0.34	6627123	PKW3M-2-PSG3M/TXL
	3	4.3	5	3 x 0.34	6626822	PKW3M-5-PSG3M/TXL

PUR Cable – Black



- 4-pin
- Qualified for drag chain use and flame-retardant
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- cULus approved



Female, 4-pin




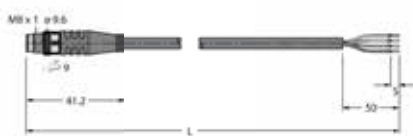

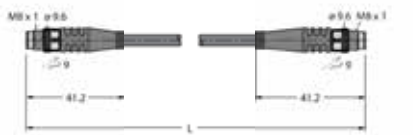


Male, 4-pin



Connector	
Connector body	Plastic, TPU, Black
Contacts	Brass, CuZn, Gold-plated
Contact carriers	TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Cable	
Core insulation	PP
Core cross-section	4 x 0.34
Arrangement of strands	42 x 0.1
Electrical properties at +20 °C	
Current load	4 A
Rated voltage	30 V
Insulation resistance	> 30.5 MΩ/km
Test voltage	2000 V
forward resistance	57 Ω/km
Mechanical and chemical properties	
Bending cycles	> 5 million
Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 m/s ²)
Admissible travel path, vertical	2 m (at 5 m/s ²)
Admissible traversing speed	3.3 m/s
Torsional stress	± 180 °/m
Ambient temperature	
Stationary usage	-50...+80 °C
Non-stationary usage	-25...+80 °C
Drag chain operation	-25...+60 °C

Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	4	4.7	2	4 x 0.34	6625553	PKG4M-2/TXL
	4	4.7	3	4 x 0.34	6627064	PKG4M-3/TXL
	4	4.7	4	4 x 0.34	6627071	PKG4M-4/TXL
	4	4.7	5	4 x 0.34	6625554	PKG4M-5/TXL
	4	4.7	10	4 x 0.34	6625555	PKG4M-10/TXL
	4	4.7	2	4 x 0.34	6625559	PKW4M-2/TXL
	4	4.7	5	4 x 0.34	6625560	PKW4M-5/TXL
	4	4.7	10	4 x 0.34	6625561	PKW4M-10/TXL
	4	4.7	2	4 x 0.34	6626108	PKW4M-P7X2-2/TXL
	4	4.7	5	4 x 0.34	6626112	PKW4M-P7X2-5/TXL
	4	4.7	10	4 x 0.34	6626187	PKW4M-P7X2-10/TXL
	4	4.7	2	4 x 0.34	6625565	PSG4M-2/TXL
	4	4.7	5	4 x 0.34	6625566	PSG4M-5/TXL
	4	4.7	10	4 x 0.34	6625567	PSG4M-10/TXL
	4	4.7	0.3	4 x 0.34	6625670	PKG4M-0.3-PSG4M/TXL
	4	4.7	0.6	4 x 0.34	6625671	PKG4M-0.6-PSG4M/TXL
	4	4.7	1	4 x 0.34	6625672	PKG4M-1-PSG4M/TXL
	4	4.7	1.5	4 x 0.34	6627059	PKG4M-1.5-PSG4M/TXL
	4	4.7	2	4 x 0.34	6625673	PKG4M-2-PSG4M/TXL
	4	4.7	5	4 x 0.34	6627076	PKG4M-5-PSG4M/TXL
	4	4.7	0.2	4 x 0.34	6630376	PSG4M-0.2-PSG4M/TXL

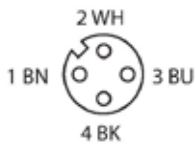
PVC Cable – Black



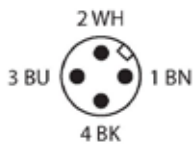
- 4-pin
- Resistant to alkaline solutions, chemicals and oils
- Resistant to microbes and hydrolysis
- Flame-retardant and free from LABS
- cULus approved



Female, 4-pin



Male, 4-pin



Connector	
Connector body	Plastic, TPU, Black
Contacts	Brass, CuZn, Gold-plated
Contact carriers	TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Cable	
Core insulation	PVC
Core cross-section	4 x 0.34
Arrangement of strands	42 x 0.1
Electrical properties at +20 °C	
Current load	4 A
Rated voltage	250 V
Insulation resistance	> 30.5 MΩ/km
Test voltage	2000 V
forward resistance	57 Ω/km
Mechanical and chemical properties	
Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø
Ambient temperature	
Stationary usage	-40...+105 °C
Non-stationary usage	0...+80 °C

Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	4	5	2	4 x 0.34	6625013	RKC4.4T-2/TEL
	4	5	5	4 x 0.34	6625014	RKC4.4T-5/TEL
	4	5	10	4 x 0.34	6625015	RKC4.4T-10/TEL
	4	5	15	4 x 0.34	6627009	RKC4.4T-15/TEL
	4	5	20	4 x 0.34	6627011	RKC4.4T-20/TEL
	4	5	2	4 x 0.34	6625025	WKC4.4T-2/TEL
	4	5	5	4 x 0.34	6625026	WKC4.4T-5/TEL
	4	5	10	4 x 0.34	6625027	WKC4.4T-10/TEL
	4	5	15	4 x 0.34	6627010	WKC4.4T-15/TEL
	4	5	20	4 x 0.34	6627012	WKC4.4T-20/TEL
	4	5	2	4 x 0.34	6625037	RSC4.4T-2/TEL
	4	5	5	4 x 0.34	6625038	RSC4.4T-5/TEL
	4	5	10	4 x 0.34	6625039	RSC4.4T-10/TEL
	4	5	0.3	4 x 0.34	6625205	RKC4.4T-0.3-RSC4.4T/TEL
	4	5	0.6	4 x 0.34	6625206	RKC4.4T-0.6-RSC4.4T/TEL
	4	5	1	4 x 0.34	6625207	RKC4.4T-1-RSC4.4T/TEL
	4	5	2	4 x 0.34	6625208	RKC4.4T-2-RSC4.4T/TEL
	4	5	3	4 x 0.34	6626479	RKC4.4T-3-RSC4.4T/TEL
	4	5	5	4 x 0.34	6625440	RKC4.4T-5-RSC4.4T/TEL
	4	5	10	4 x 0.34	6627008	RKC4.4T-10-RSC4.4T/TEL

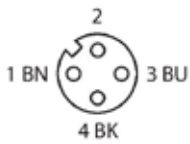
PVC Cable – Black



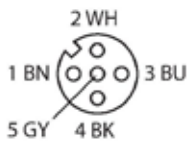
- 3 and 5-pin
- Resistant to alkaline solutions, chemicals and oils
- Resistant to microbes and hydrolysis
- Flame-retardant and free from LABS
- cULus approved



Female, 3-pin



Female, 5-pin



Connector

Connector body	Plastic, TPU, Black
Contacts	Brass, CuZn, Gold-plated
Contact carriers	TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3

Cable

Core insulation	PVC
Arrangement of strands	42 x 0.1

Electrical properties at +20 °C

Current load	4 A
Insulation resistance	> 30.5 MΩ/km
Test voltage	2000 V
forward resistance	57 Ω/km


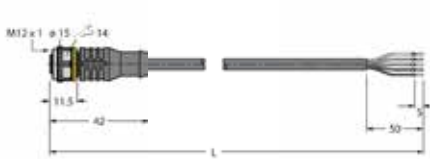

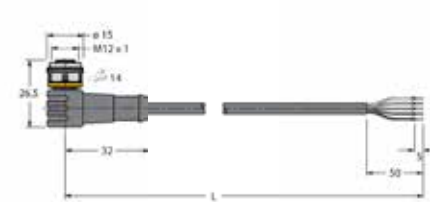
Mechanical and chemical properties

Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø

Ambient temperature

Stationary usage	-40...+105 °C
Non-stationary usage	0...+80 °C

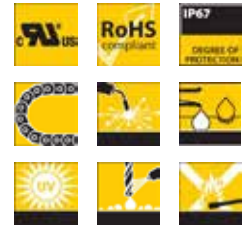
Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	3	4.7	2	3 x 0.34	6625010	RKC4T-2/TEL
	3	4.7	5	3 x 0.34	6625011	RKC4T-5/TEL
	3	4.7	10	3 x 0.34	6625012	RKC4T-10/TEL
	5	5.5	2	5 x 0.34	6625016	RKC4.5T-2/TEL
	5	5.5	5	5 x 0.34	6625017	RKC4.5T-5/TEL
	5	5.5	10	5 x 0.34	6625018	RKC4.5T-10/TEL
	5	5.5	25	5 x 0.34	6626422	RKC4.5T-25/TEL
	3	4.7	2	3 x 0.34	6625022	WKC4T-2/TEL
	3	4.7	5	3 x 0.34	6625023	WKC4T-5/TEL
	3	4.7	10	3 x 0.34	6625024	WKC4T-10/TEL
	5	5.5	2	5 x 0.34	6625028	WKC4.5T-2/TEL
	5	5.5	5	5 x 0.34	6625029	WKC4.5T-5/TEL
	5	5.5	10	5 x 0.34	6625030	WKC4.5T-10/TEL

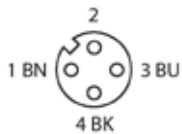
PUR Cable – Black



- 3, 4, 5 and 8-pin
- Qualified for drag chain use and flame-retardant
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- cULus approved



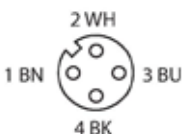
Female, 3-pin



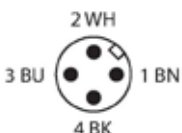
Male, 3-pin



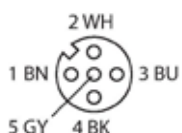
Female, 4-pin



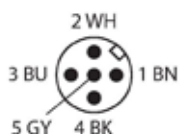
Male, 4-pin



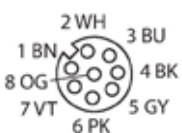
Female, 5-pin



Male, 5-pin



Female, 8-pin


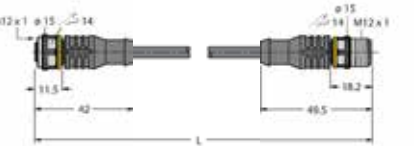
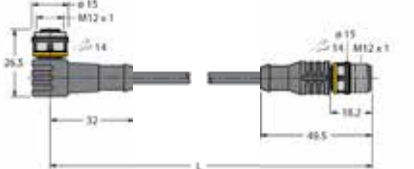

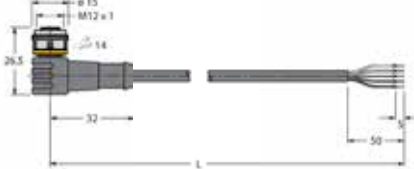


Connector	
Contacts	Brass, CuZn, Gold-plated
Contact carriers	TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Cable	
Core insulation	PP
Electrical properties at +20 °C	
Insulation resistance	> 30.5 MΩ/km
Test voltage	2000 V
Mechanical and chemical properties	
Bending cycles	> 5 million
Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 m/s ²)
Admissible travel path, vertical	2 m (at 5 m/s ²)
Admissible traversing speed	3.3 m/s
Torsional stress	± 180 °/m
Ambient temperature	
Stationary usage	-50...+80 °C
Non-stationary usage	-25...+80 °C
Drag chain operation	-25...+60 °C

Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	3	4.3	2	3 x 0.34	6625500	RKC4T-2/TXL
	3	4.3	5	3 x 0.34	6625501	RKC4T-5/TXL
	3	4.3	10	3 x 0.34	6625502	RKC4T-10/TXL
	3	4.3	2	3 x 0.34	6625512	WKC4T-2/TXL
	3	4.3	5	3 x 0.34	6625513	WKC4T-5/TXL
	3	4.3	10	3 x 0.34	6625514	WKC4T-10/TXL
	3	4.3	2	3 x 0.34	6626201	WKC4T-P7X2-2/TXL
	3	4.3	5	3 x 0.34	6626205	WKC4T-P7X2-5/TXL
	3	4.3	10	3 x 0.34	6626209	WKC4T-P7X2-10/TXL
	3	4.3	0.3	3 x 0.34	6625601	RKC4T-0.3-RSC4T/TXL
	3	4.3	0.6	3 x 0.34	6625602	RKC4T-0.6-RSC4T/TXL
	3	4.3	1	3 x 0.34	6625603	RKC4T-1-RSC4T/TXL
	3	4.3	2	3 x 0.34	6625604	RKC4T-2-RSC4T/TXL
	3	4.3	5	3 x 0.34	6625730	RKC4T-5-RSC4T/TXL
	4	4.7	2	4 x 0.34	6625503	RKC4.4T-2/TXL
	4	4.7	3	4 x 0.34	6626668	RKC4.4T-3/TXL
	4	4.7	4	4 x 0.34	6626676	RKC4.4T-4/TXL
	4	4.7	5	4 x 0.34	6625504	RKC4.4T-5/TXL
	4	4.7	8	4 x 0.34	6626739	RKC4.4T-8/TXL
	4	4.7	10	4 x 0.34	6625505	RKC4.4T-10/TXL
	4	4.7	2	4 x 0.34	6626795	RKC4.4T-P7X2-2/TXL
	4	4.7	5	4 x 0.34	6626177	RKC4.4T-P7X2-5/TXL
	4	4.7	10	4 x 0.34	6626184	RKC4.4T-P7X2-10/TXL
	4	4.7	2	4 x 0.34	6625515	WKC4.4T-2/TXL
	4	4.7	5	4 x 0.34	6625516	WKC4.4T-5/TXL
	4	4.7	10	4 x 0.34	6625517	WKC4.4T-10/TXL
	4	4.7	15	4 x 0.34	6627092	WKC4.4T-15/TXL
	4	4.7	2	4 x 0.34	6626173	WKC4.4T-P7X2-2/TXL
	4	4.7	5	4 x 0.34	6626178	WKC4.4T-P7X2-5/TXL
	4	4.7	10	4 x 0.34	6626185	WKC4.4T-P7X2-10/TXL
	4	4.7	2	4 x 0.34	6626174	WKC4.4T-P7X3-2/TXL
	4	4.7	5	4 x 0.34	6626179	WKC4.4T-P7X3-5/TXL
	4	4.7	10	4 x 0.34	6626186	WKC4.4T-P7X3-10/TXL

Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	4	4.7	2	4 x 0.34	6625527	RSC4.4T-2/TXL
	4	4.7	5	4 x 0.34	6625528	RSC4.4T-5/TXL
	4	4.7	10	4 x 0.34	6625529	RSC4.4T-10/TXL
	4	4.7	0.3	4 x 0.34	6625605	RKC4.4T-0.3-RSC4.4T/TXL
	4	4.7	0.6	4 x 0.34	6625606	RKC4.4T-0.6-RSC4.4T/TXL
	4	4.7	1	4 x 0.34	6625607	RKC4.4T-1-RSC4.4T/TXL
	4	4.7	1.5	4 x 0.34	6627055	RKC4.4T-1.5-RSC4.4T/TXL
	4	4.7	2	4 x 0.34	6625608	RKC4.4T-2-RSC4.4T/TXL
	4	4.7	3	4 x 0.34	6627065	RKC4.4T-3-RSC4.4T/TXL
	4	4.7	4	4 x 0.34	6627072	RKC4.4T-4-RSC4.4T/TXL
	4	4.7	5	4 x 0.34	6625731	RKC4.4T-5-RSC4.4T/TXL
	4	4.7	10	4 x 0.34	6627087	RKC4.4T-10-RSC4.4T/TXL
	4	4.7	0.3	4 x 0.34	6625637	WKC4.4T-0.3-RSC4.4T/TXL
	4	4.7	0.6	4 x 0.34	6625638	WKC4.4T-0.6-RSC4.4T/TXL
	4	4.7	1	4 x 0.34	6625639	WKC4.4T-1-RSC4.4T/TXL
	4	4.7	2	4 x 0.34	6625640	WKC4.4T-2-RSC4.4T/TXL
	4	4.7	5	4 x 0.34	6626878	WKC4.4T-5-RSC4.4T/TXL
	4	4.7	0.3	4 x 0.34	6626021	WKC4.4T-P7X2-0.3-RSC4.4T/TXL
	4	4.7	0.6	4 x 0.34	6626025	WKC4.4T-P7X2-0.6-RSC4.4T/TXL
	4	4.7	1	4 x 0.34	6625901	WKC4.4T-P7X2-1-RSC4.4T/TXL
	4	4.7	1.5	4 x 0.34	6626037	WKC4.4T-P7X2-1.5-RSC4.4T/TXL
	4	4.7	2	4 x 0.34	6625902	WKC4.4T-P7X2-2-RSC4.4T/TXL
	4	4.7	5	4 x 0.34	6625904	WKC4.4T-P7X2-5-RSC4.4T/TXL
		5	5.5	2	5 x 0.34	6625506
5		5.5	5	5 x 0.34	6625507	RKC4.5T-5/TXL
5		5.5	10	5 x 0.34	6625508	RKC4.5T-10/TXL
	5	5.5	2	5 x 0.34	6625518	WKC4.5T-2/TXL
	5	5.5	5	5 x 0.34	6625519	WKC4.5T-5/TXL
	5	5.5	10	5 x 0.34	6625520	WKC4.5T-10/TXL

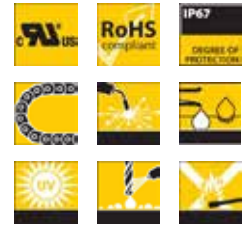
Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	5	5.5	1	5 x 0.34	6625611	RKC4.5T-1-RSC4.5T/TXL
	5	5.5	2	5 x 0.34	6625612	RKC4.5T-2-RSC4.5T/TXL
	5	5.5	5	5 x 0.34	6625732	RKC4.5T-5-RSC4.5T/TXL
	8	5.9	2	8 x 0.25	6625142	RKC8T-2/TXL
	8	5.9	5	8 x 0.25	6625143	RKC8T-5/TXL
	8	5.9	10	8 x 0.25	6625144	RKC8T-10/TXL

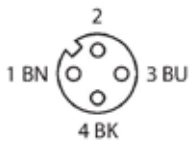
PUR Cable – Black, Shielded



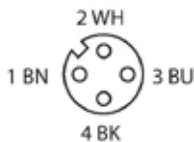
- 3, 4 and 5-pin
- Qualified for drag chain use and flame-retardant
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- cULus approved



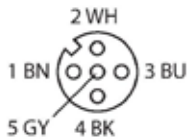
Female, 3-pin



Female, 4-pin



Female, 5-pin



Connector

Connector body	Plastic, TPU, Black
Contacts	Brass, CuZn, Gold-plated
Contact carriers	TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3

Cable

Core insulation	PP
Arrangement of strands	42 x 0.1
Shield	Aluminum foil, tinned copper braid

Electrical properties at +20 °C

Current load	4 A
Insulation resistance	> 30.5 MΩ/km
Test voltage	2000 V
forward resistance	57 Ω/km

Mechanical and chemical properties

Bending cycles	> 2 million
Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 m/s ²)
Admissible travel path, vertical	2 m (at 5 m/s ²)
Admissible traversing speed	3.3 m/s
Torsional stress	± 180 °/m

Ambient temperature

Stationary usage	-50...+80 °C
Non-stationary usage	-25...+80 °C
Drag chain operation	-25...+60 °C

Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	3	5	2	3 x 0.34	6626293	RKS4T-2/TXL
	3	5	5	3 x 0.34	6626294	RKS4T-5/TXL
	3	5	10	3 x 0.34	6626295	RKS4T-10/TXL
	4	5.3	2	4 x 0.34	6626333	RKS4.4T-2/TXL
	4	5.3	5	4 x 0.34	6626334	RKS4.4T-5/TXL
	4	5.3	10	4 x 0.34	6626335	RKS4.4T-10/TXL
	5	5.7	2	5 x 0.34	6626373	RKS4.5T-2/TXL
	5	5.7	5	5 x 0.34	6626374	RKS4.5T-5/TXL
	5	5.7	10	5 x 0.34	6626375	RKS4.5T-10/TXL

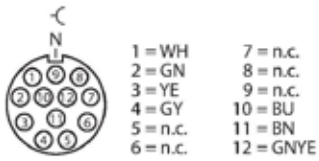
PUR Cable – Black



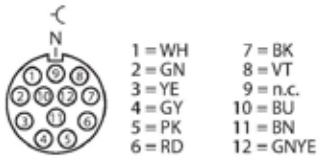
- 12-pin
- Flame-retardant acc. to FT1
- Free from halogen, silicone and PVC
- RoHS-compliant



Female, 12-pin (7 assigned)



Female, 12-pin (11 assigned)



Connector	
Connector body	Plastic, TPU, Black
Contacts	Brass, CuZn, Gold-plated
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Cable	
Core insulation	PP
Arrangement of strands	19 x 0.23
Electrical properties at +20 °C	
Rated voltage	300 V
Mechanical and chemical properties	
Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø
Ambient temperature	
Stationary usage	-40...+80 °C

Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	7	6.7	5	7 x 0.82	6631122	CKCM12-7-5/TXL
	7	6.7	10	7 x 0.82	6631123	CKCM12-7-10/TXL
	7	6.7	5	7 x 0.82	6631126	CKCWM12-7-5/TXL
	7	6.7	10	7 x 0.82	6631127	CKCWM12-7-10/TXL
	11	8.4	5	11 x 0.82	6631124	CKCM12-11-5/TXL
	11	8.4	10	11 x 0.82	6631125	CKCM12-11-10/TXL
	11	8.4	5	11 x 0.82	6631128	CKCWM12-11-5/TXL
	11	8.4	10	11 x 0.82	6631129	CKCWM12-11-10/TXL

PUR Cable – Black



- 19-pin
- Flame-retardant acc. to FT1
- Free from halogen, silicone and PVC
- RoHS-compliant



Female, 19-pin (11 assigned)



1 = n.c.	11 = n.c.
2 = n.c.	12 = GNVE
3 = GY	13 = n.c.
4 = RDBU	14 = BNGN
5 = GN	15 = WH
6 = BU	16 = YE
7 = GYPK	17 = n.c.
8 = GNWH	18 = n.c.
9 = n.c.	19 = BN
10 = n.c.	

Female, 19-pin (19 assigned)



1 = VT	11 = BK
2 = RD	12 = GNVE
3 = GY	13 = BNVE
4 = RDBU	14 = BNGN
5 = GN	15 = WH
6 = BU	16 = YE
7 = GYPK	17 = PK
8 = GNWH	18 = BNGY
9 = YEWH	19 = BN
10 = GYWH	

Connector

Connector body	Plastic, TPU, Black
Contacts	Brass, CuZn, Gold-plated
Contact carriers	TPU, Gray
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3

Cable

Core insulation	PP
Arrangement of strands	19 x 0.23 19 x 0.15 mm

Electrical properties at +20 °C

Current load	2 A
Rated voltage	150 V

Mechanical and chemical properties

Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø

Ambient temperature

Stationary usage	-40...+80 °C
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Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	8	7.6	5	8 x 0.32	6631130	CKM19-11-5/TXL
	8	7.6	10	8 x 0.32	6631131	CKM19-11-10/TXL
	8	7.6	5	8 x 0.32	6631134	CKWM19-11-5/TXL
	8	7.6	10	8 x 0.32	6631135	CKWM19-11-10/TXL
	16	8.9	5	16 x 0.32	6631132	CKM19-19-5/TXL
	16	8.9	10	16 x 0.32	6631133	CKM19-19-10/TXL
	16	8.9	5	16 x 0.32	6631136	CKWM19-19-5/TXL
	16	8.9	10	16 x 0.32	6631137	CKWM19-19-10/TXL

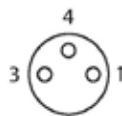
M8 x 1



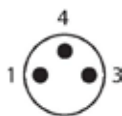
	Rated voltage [V]	Ident. no.	Type	Rated voltage	Ident. no.	Type
Female connector, straight						
	30	6901031	B5143-0	32	6905404	HA5131-0
	60	6901030	B5133-0			
Male connector, straight						
	30	6901013	BS5143-0	32	6905402	HAS5131-0
	60	6901012	BS5133-0			
Connection mode	Screw-clamp connection			Insulation displacement connection		
Connector body	Plastic, PBT, Black			Plastic, PA, Black		
Coupling nut/screw	Die-cast Zinc, GD-Zn, Nickel-plated			Brass, CuZn, Nickel-plated		
Contacts	Brass, CuZn, Gold-plated			Brass, CuZn, Gold-plated		
Contact carriers	PA 66 (UL 94 HB), Black			PA, Black		
Protection class	IP67			IP67		
Current load	4 A			4 A		
Terminal cross-section	0.14...0.5 mm ²			0.14...0.34 mm ²		
Cable external diameter	3.5...5 mm			2.5...5.1 mm		
Storage temperature	-40...+85 °C			-5...+50 °C		

Number of pins 3-pin 4-pin

Female connector



Male connector



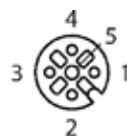
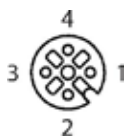
M12 x 1



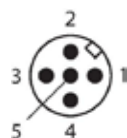
	Rated voltage [V]	Ident. no.	Type	Rated voltage	Ident. no.	Type
Female connector, straight	125 250	6904601 69049	B8151-0 B8141-0	60 250	6904604 6904901	B8151-0/9 B8141-0/PG9
Female connector, angled	250	69048	B8241-0	125	6904603	B8251-0/9
Male connector, straight				125	6904613	BS8151-0/9
Connection mode	Screw-clamp connection			Screw-clamp connection		
Connector body	Plastic, PA, Black			Plastic, PA, Black		
Coupling nut/screw	Plastic, PA, Black			Plastic, PA, Black		
Contacts	Brass, CuZn, Optalloy-coated			Brass, CuZn, Optalloy-coated		
Contact carriers	PA, Black			PA, Black		
Protection class	IP67			IP67		
Current load	4 A			4 A		
Terminal cross-section	0.14...0.75 mm ²			0.14...0.75 mm ²		
Cable external diameter	4...6 mm			6...8 mm		
Storage temperature	-40...+85 °C			-40...+85 °C		

Number of pins 4-pin 5-pin

Female connector



Male connector



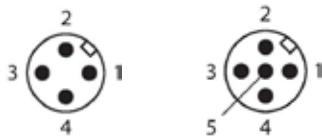
M12 x 1



	Rated voltage [V]	Ident. no.	Type	Rated voltage	Ident. no.	Type
Male connector, straight						
	125 250	6904611 69010	BS8151-0 BS8141-0	250	6901003	BS8141-0/PG9
Male connector, angled						
	250	69011	BS8241-0	125	6904615	BS8251-0/9
Connection mode	Screw-clamp connection			Screw-clamp connection		
Connector body	Plastic, PA, Black			Plastic, PA, Black		
Coupling nut/screw	Die-cast Zinc, GD-Zn, Nickel-plated			Die-cast Zinc, GD-Zn, Nickel-plated		
Contacts	Brass, CuZn, Optalloy-coated			Brass, CuZn, Optalloy-coated		
Contact carriers	PA, Black			PA, Black		
Protection class	IP67			IP67		
Current load	4 A			4 A		
Terminal cross-section	0.14...0.75 mm ²			0.14...0.75 mm ²		
Cable external diameter	4...6 mm			6...8 mm		
Storage temperature	-40...+85 °C			-40...+85 °C		

Number of pins 4-pin 5-pin

Male connector



M12 x 1

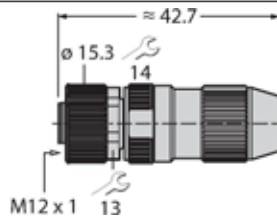


Rated voltage [V]

Ident. no.

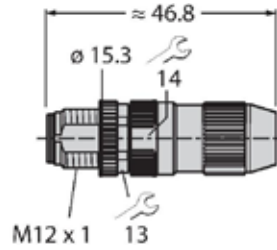
Type

Female connector, straight



32 6905407 HA8141-0

Male connector, straight

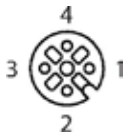


32 6905406 HAS8141-0

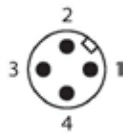
Connection mode	Insulation displacement connection
Connector body	Plastic, PA, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Contacts	Brass, CuZn, Gold-plated
Contact carriers	PA, Black
Protection class	IP67
Current load	4 A
Terminal cross-section	0.14...0.34 mm ²
Cable external diameter	4...5.1 mm
Storage temperature	-5...+50 °C

Number of pins 4-pin

Female connector



Male connector



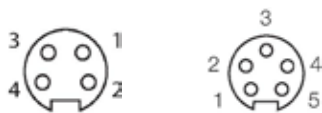
7/8"



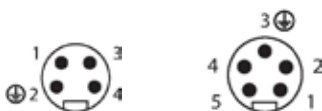
	Rated voltage [V]	Ident. no.	Type	Rated voltage	Ident. no.	Type
Female connector, straight						
	250	6914509	B4141-0/13.5	600	6904715	B4151-0/13.5
Male connector, straight						
	250	6914510	BS4141-0/13.5	250	6914507	BS4151-0/11
				600	6904716	BS4151-0/13.5
Connection mode	Screw-clamp connection			Screw-clamp connection		
Connector body	Plastic, PA, Black			Plastic, PBT(UL 94 V0), Black		
Coupling nut/screw	Aluminum, Al, Anodized			Die-cast Zinc, GD-Zn, Nickel-plated		
Contacts	Brass, CuZn, Gold-plated			Brass, CuZn, Gold-plated		
Contact carriers	TPU, Black			PBT UL94-V0, Black		
Protection class	IP67			IP67		
Rated voltage	250			600		
Terminal cross-section	0.14...1 mm ²			0.14...1.5 mm ²		
Cable external diameter	10...12 mm			10...12 mm		
Stationary usage	-40...+90 °C			-25...+85 °C		

Number of pins 3-pin 5-pin

Female connector



Male connector



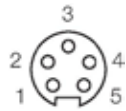
7/8"



	Rated voltage [V]	Ident. no.	Type	Rated voltage	Ident. no.	Type
Female connector, straight						
	600	6904717	B4151-0/9	600	6914526	B4151-0/11
Male connector, straight						
	600	6904718	BS4151-0/9			
Connection mode	Screw-clamp connection			Screw-clamp connection		
Connector body	Plastic, PBT(UL 94 V0), Black			Plastic, PBT(UL 94 V0), Black		
Coupling nut/screw	Die-cast Zinc, GD-Zn, Nickel-plated			Aluminum, Al, Anodized		
Contacts	Brass, CuZn, Gold-plated			Bronze, CuSn, Gold-plated		
Contact carriers	PA 66 (UL 94 HB), Black			PA 66 (UL 94 HB), Black		
Protection class	IP67			IP67		
Rated voltage	600			600		
Terminal cross-section	0.14...1.5 mm ²			0.14...1.5 mm ²		
Cable external diameter	6...8 mm			8...10 mm		
Stationary usage	-25...+85 °C			-25...+85 °C		

Number of pins 5-pin

Female connector



Male connector



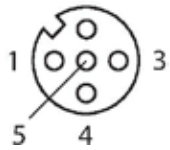
Junction Box – M12 × 1



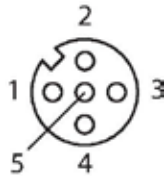
- Housing material: Nylon (PA 6 GF)
- Housing color: black
- RoHS-compliant
- cULus listed
- Protection class IP67



M12 × 1 I/O Port
3-polig + PE



4-polig + PE



M23 × 1 Male Receptacle
11-polig + PE



18-polig + PE



I/O junction

Housing	Plastic, PA, Black
I/O port	
I/O port	Female connector, M12 x 1
Thread insert	Metal, CuZn, Nickel-plated
Contact carriers	PA, Black
Contacts	Brass, CuZn, Gold-plated
Seal	Plastic, FPM/FKM
Mechanical lifespan	> 100 Mating cycles

Flange connector

Design	Male Receptacle
Contacts	Metal, CuZn, Gold-plated
Seal	Plastic, NBR

Technical data

Rated voltage	30 V
Ampacity	2 A per signal contact, total current 9 A
forward resistance	≤ 5 mΩ
Insulation resistance	≥ 10 ⁸ Ω

Ambient temperature

Stationary usage	-40...+85 °C
------------------	--------------

Diagram 1

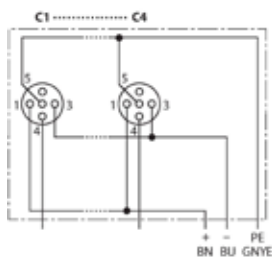


Diagram 2

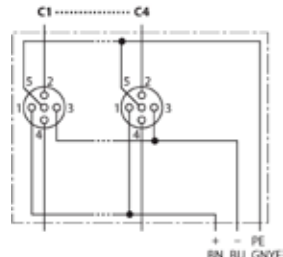


Diagram 3

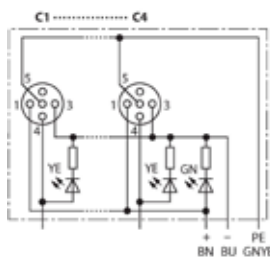
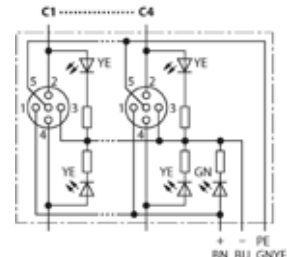
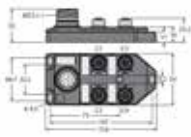
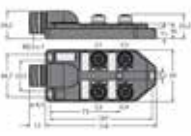
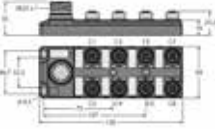
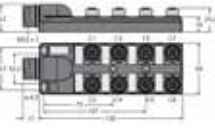


Diagram 4



Types and Data – Selection table

Design	Number of pins	Number of pins	Schaltzustandsanzeige	Diagram	Ident. no.	Type
	3+PE	12		Diagram 1	6611900	TB-4M12-4-CS12T
	4+PE	19		Diagram 2	6611901	TB-4M12-5-CS19T
	3+PE	12	LED, yellow	Diagram 3	6611902	TB-4M12-4P2-CS12T
	4+PE	19	LED, yellow	Diagram 4	6611903	TB-4M12-5P3-CS19T
	3+PE	12		Diagram 1	6611956	TB-4M12-4-CS12H
	4+PE	19		Diagram 2	6611957	TB-4M12-5-CS19H
	3+PE	12	LED, yellow	Diagram 3	6611958	TB-4M12-4P2-CS12H
	4+PE	19	LED, yellow	Diagram 4	6611959	TB-4M12-5P3-CS19H
	3+PE	12		Diagram 1	6611940	TB-8M12-4-CS12T
	4+PE	19		Diagram 2	6611941	TB-8M12-5-CS19T
	3+PE	12	LED, yellow	Diagram 3	6611942	TB-8M12-4P2-CS12T
	4+PE	19	LED, yellow	Diagram 4	6611943	TB-8M12-5P3-CS19T
	3+PE	12		Diagram 1	6611964	TB-8M12-4-CS12H
	4+PE	19		Diagram 2	6611965	TB-8M12-5-CS19H
	3+PE	12	LED, yellow	Diagram 3	6611966	TB-8M12-4P2-CS12H
	4+PE	19	LED, yellow	Diagram 4	6611967	TB-8M12-5P3-CS19H

Y-Splitter

Plug body	Plastic, TPU,
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Coupling nut	Brass, CuZn, Nickel-plated
Protection class	IP67 (Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3/2
Current load	4 A
forward resistance	≤ 5 mΩ



Types and Data – Selection table

Design	Pin assignment	Graph	Features	Ident. no.	Type
			M12 × 1 male - 2 × M8 × 1 female 4/3-pin Rated voltage: 30 V Temperature range: -30 °C...+80 °C	6930549	YB2-FSM4.4-2PKG3M
			M12 × 1 male - 2 × M8 × 1 female 4/3-pin Rated voltage: 30 V Temperature range: -30 °C...+80 °C With LED (1 × green, 2 × yellow) Grip: plastic, TPU, black/translucent	6930546	YB2-FSM4.4-2PKG3M-P7X3
			M12 × 1 male - 2 × M12 × 1 female 5/4-pin Rated voltage: 30 V Temperature range: -30 °C...+80 °C	6930492	YB2-FSM5-2FKM5.4
			M12 × 1 male - 2 × M8 × 1 female 4/3-pin Rated voltage: 60 V Temperature range: -30 °C...+90 °C	6930559	VB2-FSM4.4-2MFK3
			M12 × 1 male - 2 × M12 × 1 female 4/3-pin Rated voltage: 250 V Temperature range: -30 °C...+90 °C	6930560	VB2-FSM4.4-2FKM4
			M12 × 1 female - 2 × male M12 × 1 4/3-pin Rated voltage: 250 V Temperature range: -30 °C...+90 °C	6930561	VB2-FKM4.4-2FSM4

Types and Data – Selection table

Design	Pin assignment	Graph	Features	Ident. no.	Type
			<p>M12 x 1 male - 2 x M12 x 1 female 4/3-pin Rated voltage: 24 V Temperature range: -30 °C...+90 °C With LED (1 x green, 2 x yellow) Grip: plastic, TPU, black/translucent</p>	6930567	VB2-PX3-FSM4.4-2FKM4
			<p>M12 x 1 male - 2 x M12 x 1 female 5/4-pin Rated voltage: 60 V Temperature range: -30 °C...+90 °C</p>	6930562	VB2-FSM5-2FKM4.4
			<p>M8 x 1 male - 2x M8 x 1 female 4/3-pin Rated voltage: 30 V Temperature range: -30 °C...+80 °C</p>	6930553	YP2-MFS4-2MFK3

PUR Cable – Green, Type 4416



- 4-pin, 4 x 22 AWG, CAT 5E
- Qualified for drag chain use and robots
- Resistant to UV radiation and oils, flame-retardant
- cULus approved



RJ45 female



- 1 = YE
- 2 = OG
- 3 = WH
- 4 = n.c.
- 5 = n.c.
- 6 = BU
- 7 = n.c.
- 8 = n.c.

M12 x 1 Male



Stecker M8 x 1




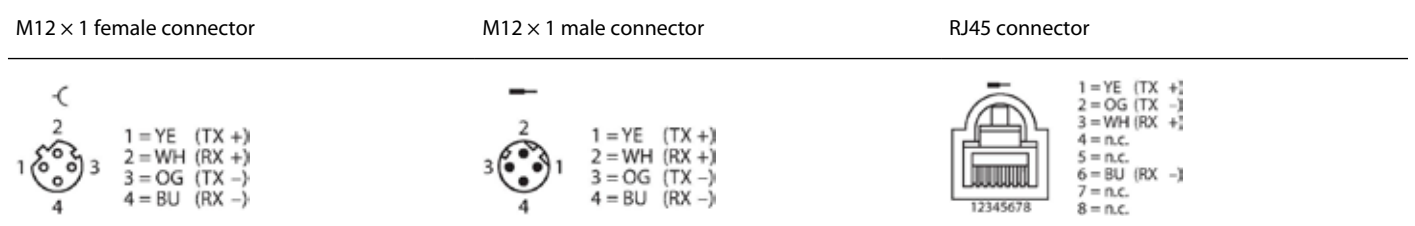
Connector	
Contacts	Metal, CuZn, Gold-plated
Protection class	(Only when screwed tight)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3/2
Cable	
Core insulation	PE
Core cross-section	4 x 0.32
Arrangement of strands	7 x 0.25
Shield	Aluminum foil, tinned copper braid
Electrical properties at +20 °C	
Test voltage	2000 V
DC resistance (loop)	120 Ω/km
Nom. impedance	100 (1MHZ)
Nom. capacitance	50 pF/m
Mechanical and chemical properties	
Bending cycles	> 3 million
Bending radius (stationary installation)	> 5 x Ø
Bending radius (flexible use)	> 8 x Ø
Torsional stress	± 180 °/m
Ambient temperature	
Stationary usage	-50...+70 °C
Non-stationary usage	-20...+60 °C

Types and Data – Selection table

	Number of conductors	Cable diameter [mm]	Cable length [m]	Core cross-section [mm ²]	Ident. no.	Type
	4	6.5	2	4 x 0.32	6935289	RSSD-4416-2M
	4	6.5	5	4 x 0.32	6935290	RSSD-4416-5M
	4	6.5	10	4 x 0.32	6935291	RSSD-4416-10M
	4	6.5	0.5	4 x 0.32	6441648	RSSD-RSSD-4416-0.5M
	4	6.5	1	4 x 0.32	6441650	RSSD-RSSD-4416-1M
	4	6.5	2	4 x 0.32	6441652	RSSD-RSSD-4416-2M
	4	6.5	5	4 x 0.32	6441655	RSSD-RSSD-4416-5M
	4	6.5	10	4 x 0.32	6441659	RSSD-RSSD-4416-10M
	4	6.5	15	4 x 0.32	6441661	RSSD-RSSD-4416-15M
	4	6.5	2	4 x 0.32	6441631	RSSD-RJ45S-4416-2M
	4	6.5	5	4 x 0.32	6441633	RSSD-RJ45S-4416-5M
	4	6.5	10	4 x 0.32	6441637	RSSD-RJ45S-4416-10M
	4	6.5	0.5	4 x 0.32	6441610	RJ45S-RJ45S-4416-0.5M
	4	6.5	2	4 x 0.32	6441613	RJ45S-RJ45S-4416-2M
	4	6.5	5	4 x 0.32	6441616	RJ45S-RJ45S-4416-5M
	4	6.5	10	4 x 0.32	6441619	RJ45S-RJ45S-4416-10M
	4	6.5	1	4 x 0.32	6935342	PSGS4M-RJ45S-4416-1M
	4	6.5	2	4 x 0.32	6935343	PSGS4M-RJ45S-4416-2M
	4	6.5	5	4 x 0.32	6935344	PSGS4M-RJ45S-4416-5M
	4	6.5	0.5	4 x 0.32	6934032	PSGS4M-PSGS4M-4416-0.5M
	4	6.5	1	4 x 0.32	6934033	PSGS4M-PSGS4M-4416-1M
	4	6.5	2	4 x 0.32	6934034	PSGS4M-PSGS4M-4416-2M
	4	6.5	5	4 x 0.32	6934035	PSGS4M-PSGS4M-4416-5M
	4	6.5	10	4 x 0.32	6934036	PSGS4M-PSGS4M-4416-10M


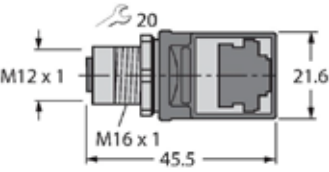
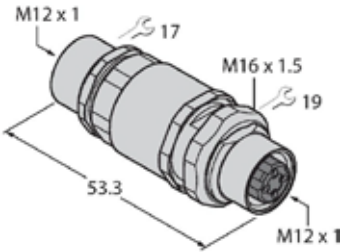
M12 × 1 and RJ45

	Number of pins	Rated voltage [V]	Ident. no.	Type	Number of pins	Rated voltage	Ident. no.	Type
								
Female connector, straight	4	250	6604219	FW-M12KU5D-G-SB-ME-SH-8				
Male connector, straight	4	250	6604218	FW-M12ST5D-G-SB-ME-SH-8				
RJ45 male connector, straight					4	30	6780031	6GK1901-1BB10-2AA0/FC-RJ45
Connection mode	Screw-clamp connection				Insulation displacement connection			
Connector body	Die-cast Zinc, GD-Zn, Nickel-plated				Metal			
Coupling nut/screw	Die-cast Zinc, GD-Zn, Nickel-plated							
Contacts	Brass, CuZn, Gold-plated							
Contact carriers	PA, Black							
Protection class	IP67				IP20			
Rated voltage	250				30			
Terminal cross-section	0.14...0.75 mm ²							
Cable external diameter	5...8 mm				6...8 mm			
Stationary usage	-40...+85 °C				-40...+80 °C			



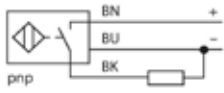
Accessories

Types and Data – Selection table

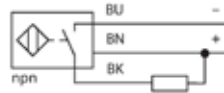
	<p>General features</p>	<p>Ident. no.</p>	<p>Type</p>
	<ul style="list-style-type: none"> ■ For Industrial Ethernet ■ RJ45 on M12 × 1, 4-pin ■ Permissible wall thickness: 1.5 - 3 mm ■ Mounting thread: M16 × 1, 8-pin ■ D-coding ■ Voltage: 42 V ■ Current load: 1.5 A ■ Temperature: -40 °C...+75 °C ■ Protection class: IP20/67 ■ Scope of delivery: Wall feed-through, seal and nut 	<p>U3-00647</p>	<p>FKSD RJ45SF 44</p>
	<ul style="list-style-type: none"> ■ For Industrial Ethernet ■ M12 × 1 female connector to M12 × 1 female connector, 4-pin ■ Mounting thread: M16 × 1.5 ■ D-coding ■ Voltage: 48 V ■ Current load: 4 A ■ Temperature: -30 °C...+85 °C ■ Protection class: IP67 	<p>6935264</p>	<p>FKSD-FKSD-44</p>

Wiring Diagrams

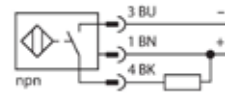
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w002



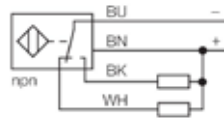
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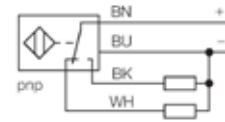
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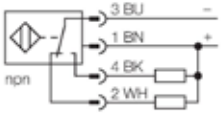
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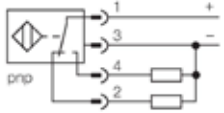
w006



w007



w008



Dimension Drawings

d001



d002



d003



d004



d005



d006



d007



d008



d009



d010



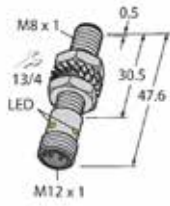
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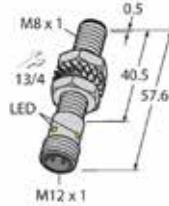
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d013



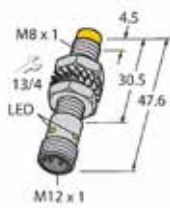
d014



d015



d016



d017



d018



d019



d020



d021



d022



d023



d024



d025



d026



d027



d028



d029



d030



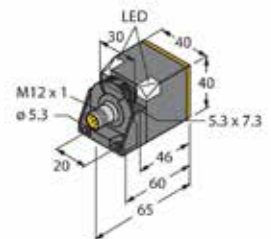
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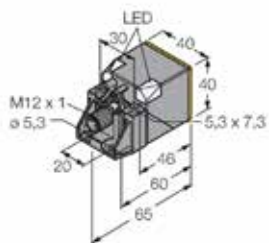
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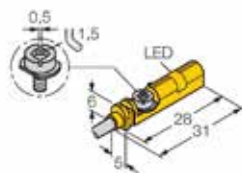
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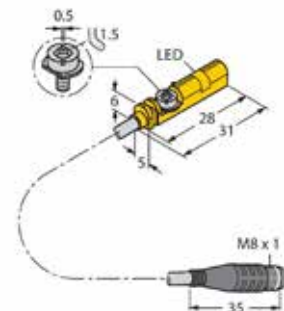
d034



d035



d036



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