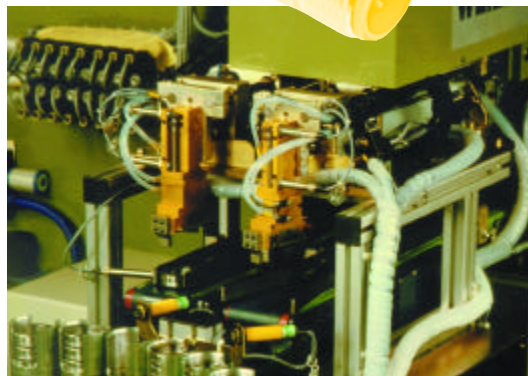


TURCK

**FIELDBUS
COMPONENTS
CAN/CANopen
DeviceNet™
PHYSICAL
MEDIA**



SIG positec

TURCK Fieldbus Technology – Fieldbus Solutions à la carte

Over the years, the company TURCK, whose name has been a synonym for sensor and automation technology for more than 30 years, has created a new line of business: the fieldbus division.

More than a decade ago, the company Ford contacted several renowned enterprises, inquiring about the development of a field bus system. A real challenge, considering that the specifications provided were brief while the technical demands were high. Reliability and data integrity are, of course, of utmost importance when networking sensors via a bus.

The system was expected to ensure error-free data transmission between the installed binary sensors and actuators and the bus modules (located directly on the tool) and the control system via a bus.

Based on experience gained during the development of *sensoplex®*, TURCK has continued to develop numerous systems and components which are being utilised throughout the world. Today, TURCK and its daughter company InterlinkBT in the United States are world-wide suppliers of a complete range of products for field bus systems: *busstop®* – the extremely versatile product line that is really hard to match.



The majority of European automotive manufacturers use TURCK bus components, e.g. TURCK's Profibus-DP remote I/O modules are part of a single source agreement with Opel Europe, for IP67 components. GM in the United States additionally uses DeviceNet™ remote I/O modules from TURCK. The process engineering sector also profits from the many advantages of TURCK bus systems: *sensoplex® 2 Ex* and *sensoplex® MC* facilitate installation, maintenance and operation.



The application involved ambient temperatures of -25 up to +70 °C, protection against moisture ingress (high pressure cleaning) and electro-magnetic disturbances due to use in welding lines, just to mention a few of the conditions to which the system was to be exposed. At the time, TURCK developed *sensoplex®*, the first bus system for field applications.



The application image on the title page was provided by the company BUSELLATO SpA.

Positioning & Automation

SIG Positec provides market-oriented solutions for positioning and automation control on the basis of proven series products.

Our customer support includes comprehensive consulting and engineering assistance and a wide range of services. Administration, sales and services are characterised by a decentral structure, based on self-dependent business units to ensure short communication flows, fast reaction times and competent solutions to product related problems.



A wide range of products for positioning and automation control solutions

Twin Line - the programme for modular positioning technology

Two different drive systems - i.e. stepping motors and synchronous AC servo-drives - are included in this product line. The advantages of Twin Line: the same mechanical construction & design and a standardised user-interface.



More information on SIG Positec Automation and up-to-date lists with branch offices and partner companies throughout the world are available via the Internet under www.sig-positec.de



Linear axes and robots

Our line of cantilever and portal axes is characterised by a variety of sizes and functions, flexibility and a high quality level. Linear robots in various designs, sizes and with different stroke lengths adapt perfectly to your space requirements and can be easily integrated into existing system installations.



ICIA - Integrated closed loop Actuator

Intelligent positioning technology in the most compact design: motor, gearbox, amplifier, positioning controller and a bus system - an innovative solution for decentral applications.

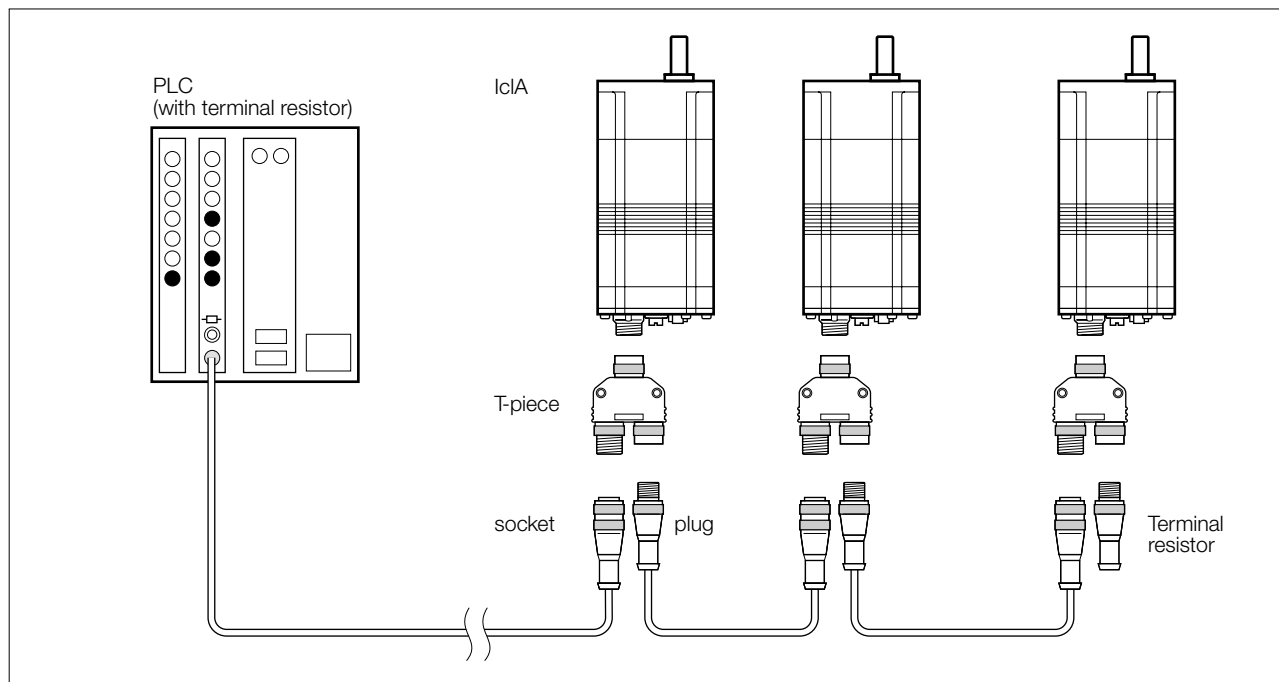
Contact:

SIG Positec Automation GmbH
Breslauerstr. 7
D-77933 Lahr
Tel. (+49) 07821-946-02
Fax (+49) 07821-946-267

E-mail: info@sig-positec.de
Internet: www.sig-positec.de

System configuration

Example: Model system with three drives, PLC and connection components



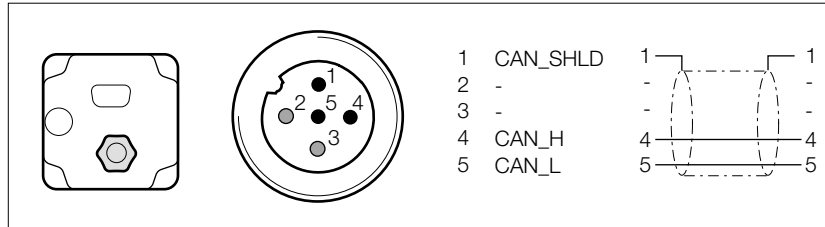
Basic parts list

A DeviceNet™-/CANopen system like the one shown above consists of the following parts:

- | | |
|--|-------------------------|
| 1 pc. bus cable type 572, 2 m long with female eurofast® (M12) connector | Type: RKC572-2M |
| 2 pc. bus cable type 572, 1 m long with male and female eurofast® (M12) connectors | Type: RSC-RKC572-1M |
| 3 pc. bus junction with 1 male and 2 female eurofast® (M12) connectors | Type: VB2-FKM/FSM/FKM57 |
| 1 pc. terminating resistor | Type: RSE57-TR2 |

CAN/DeviceNet™ fieldbus connection

The positioning drive is connected to the CAN/DeviceNet™ fieldbus via the circular 5-pole male connector:



Pin configuration - circular 5-pole male connector

Pin	Signal	Meaning	I/O
1	CAN_SHLD	screen, PE connection	–
2	–	not assigned	–
3	–	not assigned	–
4	CAN_H	data wire, dominant high	I/O
5	CAN_L	data wire, dominant low	I/O

Network accessories and connection

Cable connectors, junction boxes and terminating resistors for the positioning drive are specified in this catalogue and can be ordered from TURCK.

Connect a T-piece or a plug with two cable outlets to the circular plug connector on the positioning drive, and connect neighbouring fieldbus devices via fieldbus cables:

- terminate both open ends of the CAN fieldbus with 120 Ohm resistors.
- fix T-piece to positioning drive not allowing any cable stub.
- the maximum cable length for a CAN network depends on the baud rate at which the network is to be operated. The higher the baud rate, the shorter the bus cable must be.
- CANopen: no drops recommended

Maximum ratings

Baud rate [kBd]	Cable length [m]	Baud rate [kBd]	Cable length[m]
1000	25	100	600
800	50	50	1000
500	100	20	2500
250	250	10	5000

TURCK Fieldbus Components for Sensors and Actuators



InterlinkBT – A BANNER-TURCK Company for Bus Products

InterlinkBT was founded by the companies **TURCK** und **BANNER** and combines the experience and know-how of these two pioneers in the field of industrial automation, resulting in one of the most complete and versatile lines of bus products. The range of products comprises stations, junctions and connection products for all customary industrial fieldbus systems.

InterlinkBT is the distributor for the American market.

Table of Contents:

Cables:	
572 Thin	8
577 <i>Flexlife</i>™ Thin	9
5711 Mid	10
5710 <i>Flexlife</i>™ Mid	11

Cables with connectors:	
572, 577 Thin, 5711, 5710 Mid	12

<i>eurofast</i>® connectors	
dimensions/pin configuration	13

VB2 <i>eurofast</i>® drop junctions	14
dimensions/pin configuration	15

<i>minifast</i>® and <i>eurofast</i>®	
feed-through receptacles	16

Terminating Resistors	17
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<i>eurofast</i>® field solderable receptacles	18
dimensions/pin configuration	19

<i>eurofast</i>® field wireable connectors	20
dimensions/pin configuration	21

<i>minifast</i>® to <i>eurofast</i>® adapter	22
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CAN/DeviceNet™ – 572 thin cable and premoulded connectors



Colour coded for CAN/DeviceNet™ systems
High flex construction, compact size
Tough polyurethane premoulded connectors
Oil and abrasion resistant
2-pair individually shielded and overall third shield

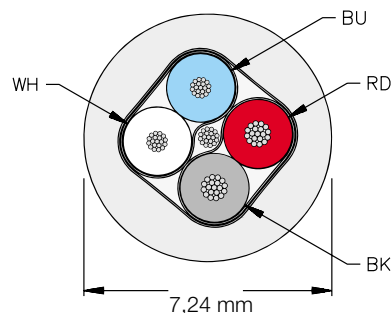
Complete line of *eurofast*® connectors available.

Application suitability	100 m max.	175 m max.	500 m max.	Moderate < 1 million	High > 1 million	Typ AWM	PVC Good	PUR Excellent
	"Thin"	"Mid"	"Thick"					
Distance for power pair								
Flex cycles*					☆			
NEC/UL approval						☆		
Oil resistance							☆	

* Flex cycle life may vary by application

Specifications

Cable:	CAN/DeviceNet™
Ident-no.	69 580 26
Rating:	300 V, 80 °C
Materials:	PVC outer jacket Polyethylene inner construction insulation
Power pair:	– black, red – 2/22 AWG (2 x 0.32 mm ²), stranded tinned copper, twisted pair – insulation AWM 10233, 300 V, polyethylene, 80 °C, – DC resistance - 54.13 Ω/km (1000 ft. 16.5 Ω) – current rating - 6.4 A
Data pair:	– blue, white – 2/22 AWG (2 x 0.32 mm ²), stranded tinned copper, twisted pair – insulation AWM 10233, 300 V, polyethylene, 80 °C, – DC resistance - 54.13 Ω/km (1000 ft. 16.5 Ω) – current rating - 6.4 A – nominal impedance 126 Ω at 1 MHz – nominal capacitance - conductor to conductor 37.17 pF/m (11.33 pF/ft) – velocity of propagation 0.75
Signal attenuation:	– at 125kHz - 0.34776 dB/100 m (0.1060 dB/100 ft) – at 500kHz - 0.34875 dB/100 m (0.1063 dB/100 ft) – at 1 MHz - 0.34908 dB/100 m (0.1064 dB/100 ft)
Shield/drain:	– Aluminium foil (100 % coverage) – 22 AWG (0.32 mm ²), stranded tinned copper
Approvals:	UL recognized, AWM Type 2476, 80 °C, 300 V CSA AWM I/II A/B, 80 °C, 300 V, FT1
Connector:	<i>eurofast</i> ® (M12)
Plug body:	moulded polyurethane, spacings to VDE 0110, Group C (250 VAC/300 VDC)
Contacts:	gold-plated brass
Coupling Nuts:	nickel-plated brass, stainless steel optional
Temperature:	-40 ° to +70 °C
Protection:	IP67 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6, 13
Rated current:	<i>eurofast</i> ® - 4.0 A



CAN/DeviceNet™ – 577 Flexlife™ thin cable and premoulded connectors



Colour coded for CAN/DeviceNet™ systems
 FlexLife high flex construction
 Tough polyurethane premoulded connectors
 Rugged construction with braided shield
 2-pair individually shielded and overall third shield

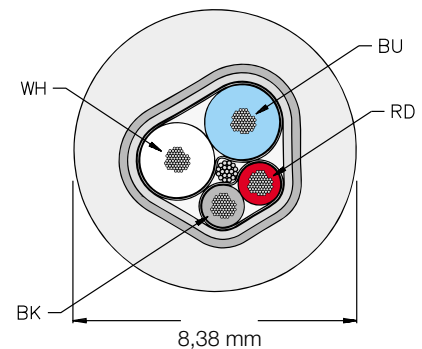
Complete line of
 eurofast® connectors available.

	100 m max.	175 m max.	Moderate < 1 million	High > 1 million	AWM	Good	Excellent
Application suitability	"Thin"	"Mid"			Typ	PVC	PUR
Distance for power pair	☆						
Flex cycles*				☆			
NEC/UL approval					☆		
Oil resistance							☆

* Flex cycle life may vary by application

Specifications

Cable:	CAN/DeviceNet™
Ident-no.	69 580 25
Rating:	300 V, 80 °C
Materials:	PUR outer jacket PUR inner construction insulation
Power pair:	– black, red – 2/22 AWG (2 x 0.32 mm ²), stranded bare copper, twisted pair – insulation AWM 10233, 300 V, Polyethylene, 80 °C, – DC resistance - 54.13 Ω/km (1000 ft. 16.5 Ω) – current rating - 6.4 A
Data pair:	– blue, white – 2/22 AWG (2 x 0.32 mm ²), stranded bare copper, twisted pair – insulation AWM 10233, 300 V, polyethylene, 80 °C, – DC resistance - 54.13 Ω/km (1000 ft. 16.5 Ω) – current rating - 6.4 A – nominal impedance 118 Ω at 1 MHz – nominal capacitance - conductor to conductor 39.37pF/m (12 pF/ft) – velocity of propagation 0.75
Signal attenuation:	– at 125kHz - 0.34776 dB/100 m (0.1060 dB/100 ft) – at 500kHz - 0.34875 dB/100 m (0.1063 dB/100 ft) – at 1 MHz - 0.34908 dB/100 m (0.1064 dB/100 ft)
Shield/drain:	– 36 AWG (0,013 mm ²), tinned copper braid (65 % coverage) – 22 AWG (0,32 mm ²), stranded tinned copper
Approvals:	UL recognized AWM Type 2476, 80 °C, 300 V; CSA AWM I/II A/B, 80 °C, 300 V, FT1 ODVA Cable I approval pending; ODVA Release 2.0 compliant
Connector:	
Plug body:	moulded polyurethane, spacings to VDE 0110, Group C (250 VAC/300 VDC)
Contacts:	gold-plated brass
Coupling Nuts:	nickel-plated brass, stainless steel optional
Temperature:	-40 ° to +70 °C
Protection:	IP67 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6, 13
Rated current:	eurofast® (M12) - 4.0 A



CAN/DeviceNet™ – 5711 mid cable and premoulded connectors



Colour coded for CAN/DeviceNet™ systems
High flex construction; longer distances
Tough Polyurethane premoulded connectors
Oil and abrasion resistant
2-pair individually shielded and overall third shield

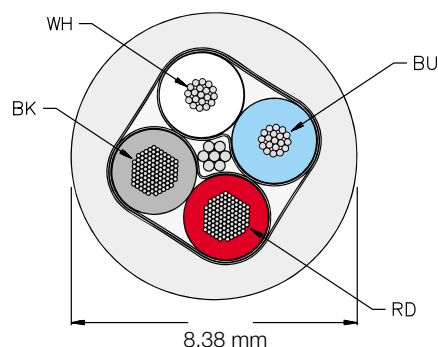
Complete line of
eurofast® connectors available.

Application suitability	"Thin" 100 m max.	"Mid" 175 m max.	Moderate < 1 million	High > 1 million	Typ AWM	PVC Good	PUR Excellent
Distance for power pair		☆					
Flex cycles*			☆				
NEC/UL approval					☆		
Oil resistance						☆	

* Flex cycle life may vary by application

Specifications

Cable:	CAN/DeviceNet™
Ident-no.	69 581 16
Rating:	300 V, 80 °C
Materials:	PVC outer jacket Polyethylene inner construction insulation
Power pair:	– black, red – 2/16 AWG (2 x 1.3 mm ²), stranded tinned copper, twisted pair – insulation AWM 1569, 300 V, PVC, 80 °C, – DC resistance - 13 Ω/km (1000 ft. 4.1 Ω) – current rating - 15.2 A
Data pair:	– blue, white – 2/20 AWG (2 x 0.5 mm ²), stranded bare copper, twisted pair – insulation AWM 10233, 300 V, polyethylene, 80 °C, – DC resistance - 34.1 Ω/km (1000 ft. 10.4 Ω) – current rating - 9.6 A – nominal impedance 110 Ω at 1 MHz – nominal capacitance - conductor to conductor 40.52 pF/m (12.35 pF/ft) – velocity of propagation 0.75
Signal attenuation:	– at 125kHz - 0.02624 dB/100 m (0.0080 dB/100 ft) – at 500kHz - 0.02624 dB/100 m (0.0080 dB/100 ft) – at 1 MHz - 0.02624 dB/100 m (0.0080 dB/100 ft)
Shield/drain:	– aluminium foil (100 % coverage) – 20 AWG (0.5 mm ²), stranded tinned copper
Approvals:	UL recognized AWM Type 2464, 80 °C, 300 V; CSA AWM I/II A/B, 80 °C, 300 V, FT1 ODVA Cable I approval pending; ODVA Release 2.0 compliant
Connector:	
Plug body:	moulded polyurethane, spacings to VDE 0110, Group C (250 VAC/300 VDC)
Contacts:	gold-plated brass
Coupling Nuts:	nickel-plated brass, stainless steel optional
Temperature:	-40 ° to +70 °C
Protection:	IP67 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6, 13
Rated current:	<i>eurofast</i> ® (M12) - 4.0 A



CAN/DeviceNet™ – 5710 Flexlife™ mid cable and premoulded connectors



Colour coded for CAN/DeviceNet™ systems
 FlexLife high flex cable
 Tough polyurethane premoulded connectors
 Oil and abrasion resistant
 2-pair individually shielded and overall third shield

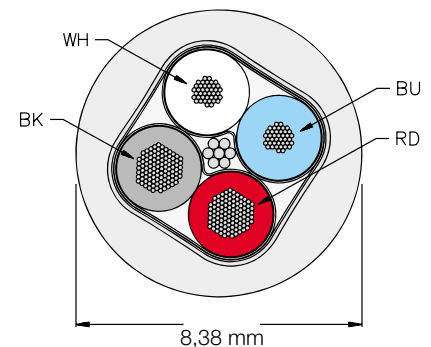
Complete line of
 eurofast® connectors available.

	"Thin" 100 m max.	"Mid" 175 m max.	Moderate < 1 million	High > 1 million	Typ AWM	PVC Good	PUR Excellent
Application suitability							
Distance for power pair		☆					
Flex cycles*				☆			
NEC/UL approval					☆		
Oil resistance							☆

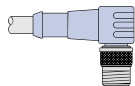
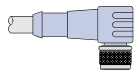
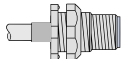
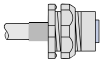
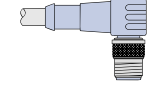
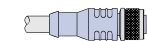
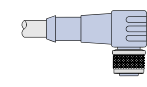
* Flex cycle life may vary by application

Specifications

Cable:	CAN/DeviceNet™
Ident-no.	69 581 15
Rating:	300 V, 80 °C
Materials:	PUR outer jacket Polyethylene inner construction insulation
Power pair:	– black, red – 2/17 AWG (2 x 0.32 mm ²), stranded bare copper, twisted pair – insulation AWM 10233, 300 V, Polyethylene, 80 °C, – DC resistance - 13 Ω/km (1000 ft. 5.16 Ω) – current rating - 13.6 A
Data pair:	– blue, white – 2/20 AWG (2 x 0.5 mm ²), stranded bare copper, twisted pair – insulation AWM 10233, 300 V, polyethylene, 80 °C, – DC resistance - 34,1 Ω/km (1000 ft. 10.4 Ω) – current rating - 9.6 A – nominal impedance 110 Ω at 1 MHz – nominal capacitance - conductor to conductor 40.52 pF/m (12.35 pF/ft) – velocity of propagation 0.75
Signal attenuation:	– at 125kHz - 0.2624 dB/100 m (0.080 dB/100 ft) – at 500kHz - 0.2624 dB/100 m (0.080 dB/100 ft) – at 1 MHz - 0.2624 dB/100 m (0.080 dB/100 ft)
Shield/drain:	– aluminium foil (100 % coverage) – 20 AWG (0,5 mm ²), stranded tinned copper
Approvals:	UL recognized AWM Type 2476, 80 °C, 300 V; CSA AWM I/II A/B, 80 °C, 300 V, FT1 ODVA Cable I approval pending; ODVA Release 2.0 compliant
Connector:	
Plug body:	moulded polyurethane, spacings to VDE 0110, Group C (250 VAC/300 VDC)
Contacts:	gold-plated brass
Coupling Nuts:	nickel-plated brass, stainless steel optional
Temperature:	-40 ° to +70 °C
Protection:	IP67 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6, 13
Rated current:	eurofast® (M12) - 4.0 A



CAN/DeviceNet™ – thin cable, mid cable, connectors – 572, 577, 5710, 5711

		eurofast® **				eurofast® bulkhead **		
		Socket (male)		Pin (female)		Socket (male)	Pin (female)	
								
		RSC 57 ^x -*M	WSC 57 ^x -*M	RKC 57 ^x -*M	WKC 57 ^x -*M	FSFD 57 ^x -*M	FKFD 57 ^x -*M	
eurofast® **	Pin (male)		RSC RSC 57 ^x -*M	RSC WSC 57 ^x -*M	RSC RKC 57 ^x -*M	RSC WKC 57 ^x -*M	RSC FSFD 57 ^x -*M	RSC FKFD 57 ^x -*M
			WSC WSC 57 ^x -*M	WSC RKC 57 ^x -*M	WSC WKC 57 ^x -*M	WSC FSFD 57 ^x -*M	WSC FKFD 57 ^x -*M	
				RKC RKC 57 ^x -*M	RKC WKC 57 ^x -*M	RKC FSFD 57 ^x -*M	RKC FKFD 57 ^x -*M	
					WKC WKC 57 ^x -*M	WKC FSFD 57 ^x -*M	WKC FKFD 57 ^x -*M	

- x Indicates cable type
 * Indicates length in meters
 ** Consult factory for availability

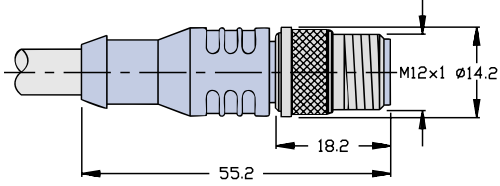
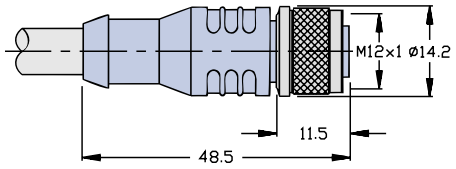
Ordering information: Preferred cable type: cable 572

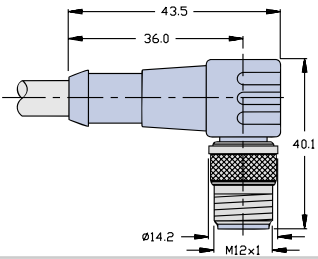
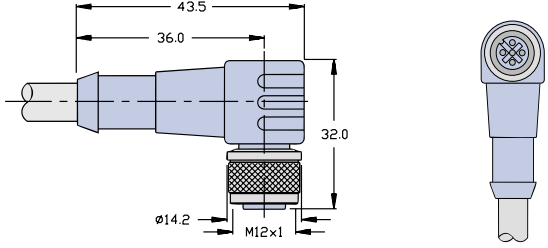
Standard cable lengths			
Premoulded		Bulk cable	
metres	feet	metres	feet
0.3	1.0	30	98
0.5	1.6		
1.0	3.3		
1.5	4.9	75	246
2.0	6.6		
2.5	8.2		
3.0	9.8	150	492
4.0	13		
5.0	16		
6.0	20	225	738
8.0	26		
10	33		
15	49	300	984
20	66		
25	82		
30	98	---	---
40	131		
50	164		

Notes:

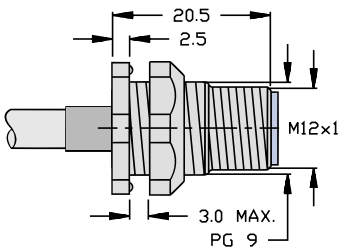
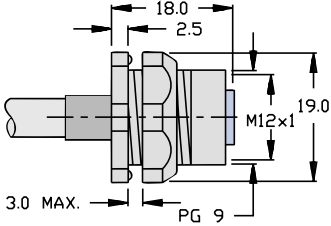
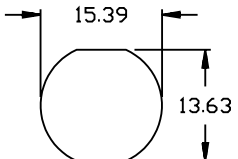
- Other cable lengths on request
- Cable conversions:
 1 metre = 3.2808 feet
 1 metre = 39.37 inch
- Tolerances:
 0 - 1 metre : +25 / -0 mm
 1 - 12.5 metres : +50 / -0 mm
 > 12.5 metres : +4% of length / -0 mm

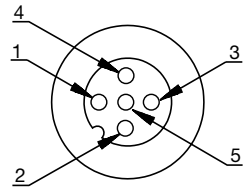
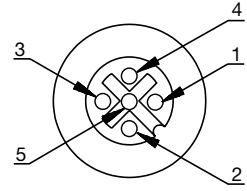
euromast® connectors – dimensions and pin configuration

RSC-*	Dimension drawings	RKC-*
		

WSC-*	Dimension drawings	WKC-*
		

[] Brackets indicate cable dimensions for cable type 572, 577, 5710, 5711

FSFD-*	FKFD-*	Mounting /installation
		

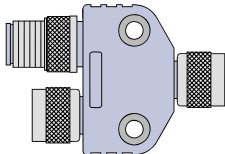
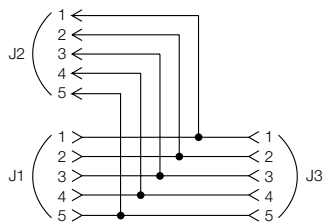
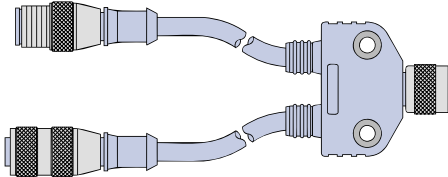
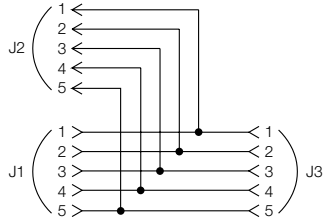
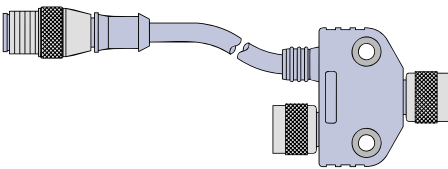
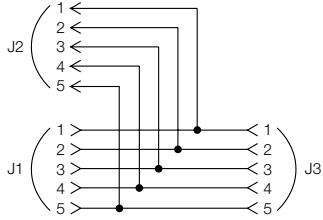
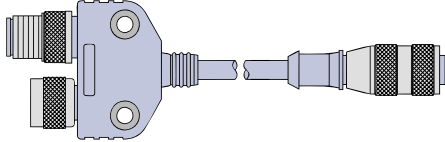
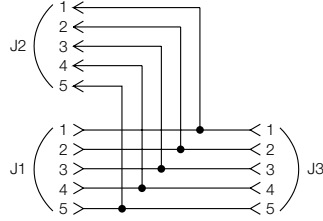
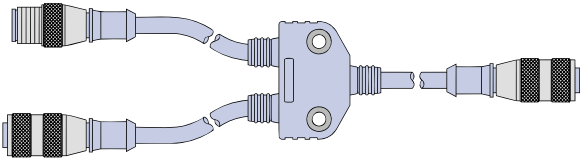
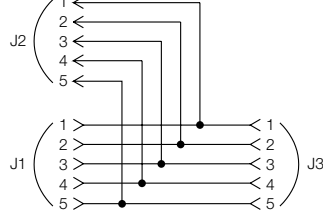
Male	Pin configuration	Female
	1 = bare (shield drain wire) 2 = red (+ voltage) 3 = black (- voltage) 4 = white (CAN_H) 5 = blue (CAN_L)	

CAN/DeviceNet™ – VB2 eurofast® – drop junctions



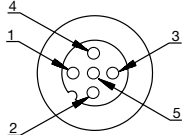
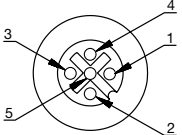
eurofast® branch from eurofast® bus line
Keyed for CAN/DeviceNet™ systems
Tough polyurethane moulded body
Heavy duty internal wiring

Selection guide

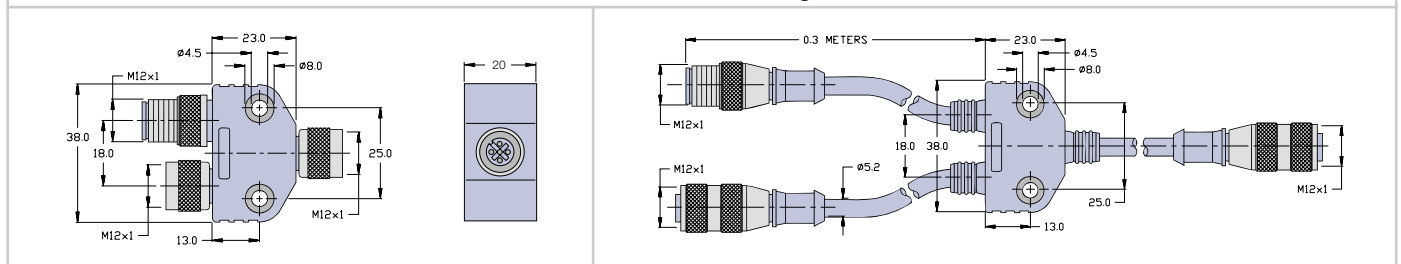
Part Number	Applications	Schematic
VB2-FKM FKM FSM 57 	VB2 junction ● ready for eurofast® connectors branch and bus	
VB2-FKM/RKC RSC 572 *M *M 	VB2 junction with 572 "thin" bus line ● reduced power and data drop	
VB2-FKM/FKM RSC 572 *M 	VB2 junction with 572 "thin" bus line ● ready for eurofast® connectors branch and bus	
VB2-RKC 572 *M/FKM FSM 	VB2 junction with 572 "thin" branch line ● ready for eurofast® bus line Note: not recommended for CANopen	
VB2-RKC 572 *M/RKC RSC 572 *M *M 	VB2 junction with 572 "thin" branch and bus line Note: not recommended for CANopen	

CAN/DeviceNet™ – VB2 eurofast® – dimensions and pin configuration

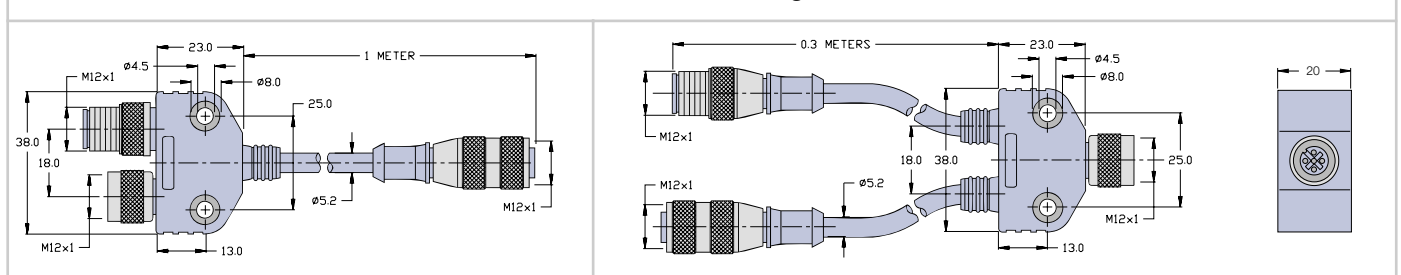
Connector:	moulded polyurethane construction, spacings to VDE 0110, Group C (250 VAC/300 VDC)
Contact materials:	gold-plated brass
Coupling nuts:	nickel-plated brass, stainless steel optional
Temperature:	-40 to +70 °C
Protection degree:	IP67 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6, 13

Cable specification	FSM or RSC male eurofast®	FKM or RKC female eurofast®
DeviceNet thin cable ● Type 572		

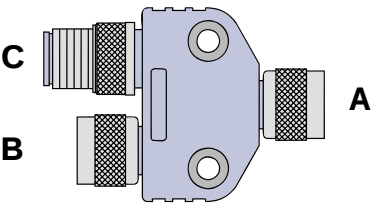
Dimension drawings



Dimension drawings



Part Number Definition

	Connector* VB2-FKM ____ /FKM FSM 57 ____ Cordset* VB2 RKC 572 *M/RKC RSC 572 *M *M Family type _____ Connector/cordset A _____ Cable Type A _____ Length A _____ Length C _____ Length B _____ Cable type B and C _____ Connector/Cordset C _____ Connector/Cordset B _____
---	--

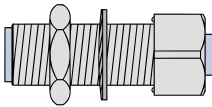
* Example: FKM in position A is an eurofast® connector; RKC in position A is an eurofast® cordset;
 FKM – female eurofast® connector; FSM – male eurofast® connector; RKC – female eurofast® cordset; RSC – male eurofast® cordset;

CAN/DeviceNet™ – eurofast® bulkhead feed-through receptacles



Keyed for CAN/DeviceNet™ systems
Easy panel or enclosure mounting
eurofast® – standard cutout size (Ø 12.7 mm)
Rugged IEC IP67/ NEMA 6

Selection guide

Part Number	Applications	Schematic
FKM FS 57/M12 	<i>eurofast</i> ® bulkhead receptacle • straight male/female feed-thru • for use with CAN/DeviceNet™ <i>eurofast</i>® cordsets	<pre> 1 <-----> 1 2 <-----> 2 3 <-----> 3 4 <-----> 4 5 <-----> 5 </pre>

Specifications

Connector: nickel-plated brass (CuZn),
spacings to VDE 0110, Group C (250 VAC/300 VDC)

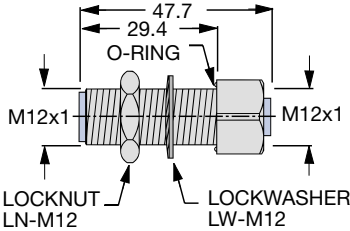
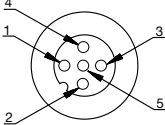
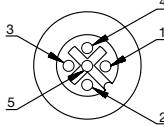
Contact carrier: PA6 (Nylon)

Contact materials: gold-plated brass

Coupling nuts: nickel-plated brass, stainless steel optional

Temperature: -40 ° to +105 °C

Protection degree: IP67 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6

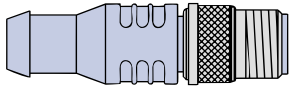
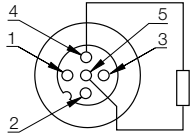
Dimensions	Pin configuration	Recommended panel cutout
	RSM male <i>eurofast</i>®  FKM female <i>eurofast</i>®  rating: 4 A, 250 V	 Ø 12.7

CAN/DeviceNet™ – terminating resistors



Terminating resistors with *eurofast*® connectors
Tough polyurethane moulded body
Heavy duty internal wiring

Selection guide

Part Number	Applications	Schematic
RSE 57-TR2 	<i>eurofast</i>® terminating resistor ● internal resistor ● male <i>eurofast</i>® connector	

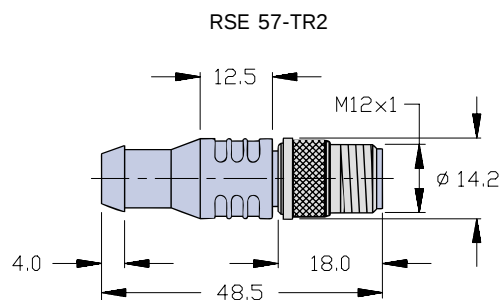
For stainless steel coupling nut change part number from RSE 57-TR2 to RSEV 57 TR2

For female connector change part number from RSE 57-TR2 to RKE 57 TR2

Specifications

Connector: oil resistant grey polyurethane body material and contact carrier, 300 V rating
Contact materials: gold-plated copper alloy
Coupling nuts: nickel-plated brass, stainless steel optional
Temperature: -40 ° to +80 °C
Protection degree: IP67 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6

Dimensions

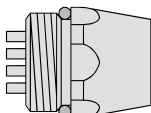
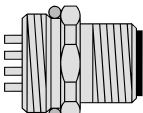


CAN/DeviceNet™ – eurofast® field solderable receptacles



Field solderable receptacles for bus cables
Easy panel or enclosure mounting
Facilitate field installation

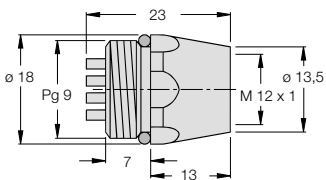
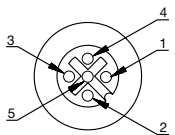
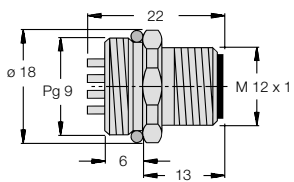
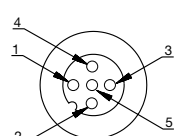
Selection guide

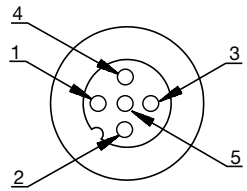
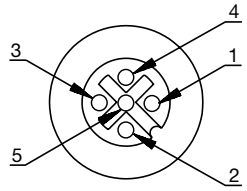
Part Number	Applications	Schematic
FK 57 	<i>eurofast</i> ® field solderable receptacle ● straight female connector ● for use with CAN/DeviceNet™ thin cables	Bare —————< 1 Red —————< 2 Black —————< 3 White —————< 4 Blue —————< 5
FS 57 	<i>eurofast</i> ® field solderable receptacle ● straight male connector ● for use with CAN/DeviceNet™ thin cables	Bare —————> 1 Red —————> 2 Black —————> 3 White —————> 4 Blue —————> 5

Receptacles also available with cable

Specifications

Connector: PA6 (Nylon), 250 V rating
Housing materials: nickel-plated brass
Contact materials: gold-plated brass
Solder lugs: 22 AWG capacity
Temperature: -40 ° to +90 °C
Protection degree: IP68 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6P

Dimensions	Pin configuration	Wire Capacity
	female <i>eurofast</i>®  rating: 4 A, 300 V	22 AWG CAN/DeviceNet™ cable type 572 type 577
	male <i>eurofast</i>®  rating: 4 A, 300 V	22 AWG CAN/DeviceNet™ cable type 572 type 577

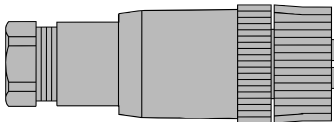
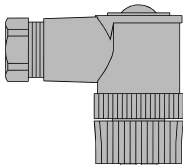
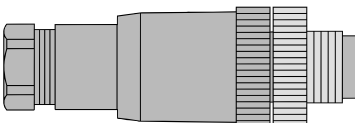
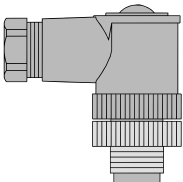
Male	Pin configuration	Female
	1 = bare (shield drain wire) 2 = red (+ voltage) 3 = black (- voltage) 4 = white (CAN_H) 5 = blue (CAN_L)	

CAN/DeviceNet™ – eurofast® field wireable connectors



Field wireable connectors for bus lines and spurs
Facilitate field replacement

Selection guide

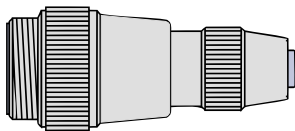
Part Number	Applications	Schematic
B8151-0/9 	eurofast® field wireable ● straight female connector ● for use with CAN/DeviceNet™ thin cables	Bare —————< 1 Red —————< 2 Black —————< 3 White —————< 4 Blue —————< 5
B8251-0/9 	eurofast® field wireable ● right angle female connector ● for use with CAN/DeviceNet™ thin cables	Bare —————< 1 Red —————< 2 Black —————< 3 White —————< 4 Blue —————< 5
BS 8151-0/9 	eurofast® field wireable ● straight male connector ● for use with CAN/DeviceNet™ thin cables	Bare —————> 1 Red —————> 2 Black —————> 3 White —————> 4 Blue —————> 5
BS8251-0/9 	eurofast® field wireable ● right angle male connector ● for use with CAN/DeviceNet™ thin cables	Bare —————> 1 Red —————> 2 Black —————> 3 White —————> 4 Blue —————> 5

Specifications

Connector: polyester, PTB black
Connector insert: PTB, spacings to VDE 0110, Group C (250 VAC/300 VDC)
Contact materials: nickel-plated copper alloy
Coupling nuts: female – PTB; male – nickel-plated brass
Temperature: -40 ° to +85 °C
Protection degree: IP67 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6p

Dimensions	Applications	Schematic
	female <i>eurofast</i>® rating 3 A, 36 VDC	0.236 - 0.330 / 6 - 8.5 CAN/DeviceNet™ cable type 572, 577, 5710, 5711
	female <i>eurofast</i>® rating 3 A, 36 VDC	0.236 - 0.330 / 6 - 8.5 CAN/DeviceNet™ cable type 572, 577, 5710, 5711
	male <i>eurofast</i>® rating 3 A, 36 VDC	0.236 - 0.330 / 6 - 8.5 CAN/DeviceNet™ cable type 572, 577, 5710, 5711
	male <i>eurofast</i>® rating 3 A, 36 VDC	0.236 - 0.330 / 6 - 8.5 CAN/DeviceNet™ cable type 572, 577, 5710, 5711

CAN/DeviceNet™ – minifast® to eurofast® adapter



Keyed for CAN/DeviceNet™ systems
Tough polyurethane moulded body
Heavy duty internal wiring

Selection guide

Part Number	Applications	Schematic
RSM 57-FK 4.5	minifast® to eurofast® adapter minifast® male to eurofast® female connector	<pre> 1 <-----> 1 2 <-----> 2 3 <-----> 3 4 <-----> 4 5 <-----> 5 J1 J2 </pre>

Specifications

Connector: moulded polyurethane constructions,
spacings to VDE 0110, Group C (250 VAC/300 VDC)

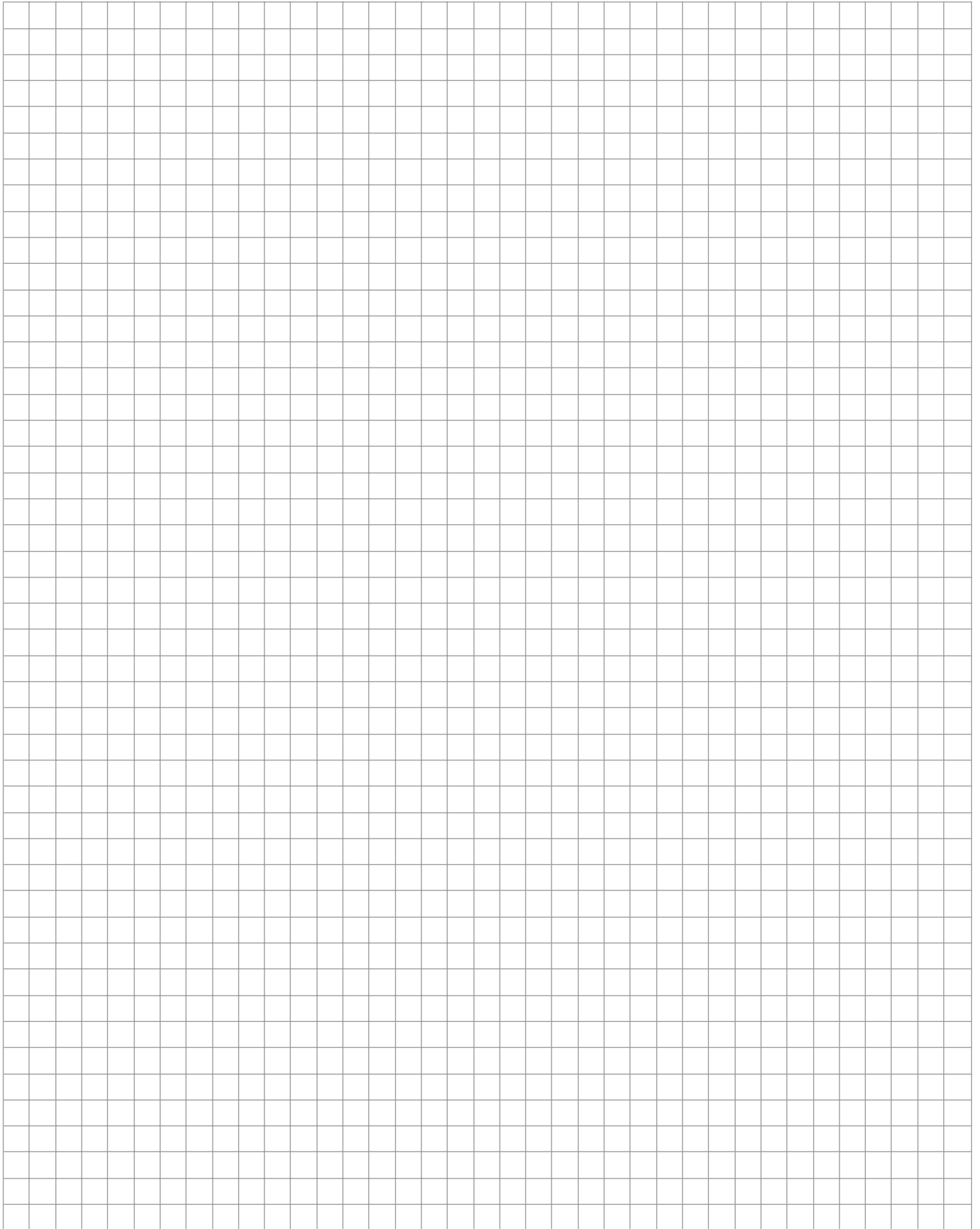
Contact materials: gold-plated brass

Coupling nuts: nickel-plated brass, stainless steel optional

Temperature: -40 ° to +70 °C

Protection degree: IP67 (IEC 60529/EN 60529), NEMA 1, 3, 4, 6, 13

Dimensions	RSM male minifast®	FKM female eurofast®
	rating: 9 A, 600 V	rating: 9 A, 600 V



Index of parts

Type	Page
B	
B 8151-0/9	20
B 8251-0/9	20
BS 8151-0/9	20
BS 8251-0/9	20
C	
Cable 5710 Flexlife	11
Cable 5711	10
Cable 572	8
Cable 577 Flexlife	9
F	
FK 57	18
FKM FS 57/M12	16
FS 57	18
R	
RKC FKFD 57x-*M	12
RKC FSFD 57x-*M	12
RKC RKC 57x-*M	12
RKC WKC 57x-*M	12
RSC FKFD 57x-*M	12
RSC FSFD 57x-*M	12
RSC RKC 57x-*M	12
RSC RSC 57x-*M	12
RSC WKC 57x-*M	12
RSC WSC 57x-*M	12
RSE 57-TR2	17
RSM 57-FK 4.5	22
V	
VB2-FKM FKM FSM 57	14
VB2-FKM/FKM RSC 572-*M	14
VB2-FKM/RKC RSC 572-*M-*M	14
VB2-RKC 572-*M/FKM FSM	14
VB2-RKC 572-*M/RKC RSC 572-*M-*M	14
W	
WKC FKFD 57x-*M	12
WKC FSFD 57x-*M	12
WKC WKC 57x-*M	12
WSC FKFD 57x-*M	12
WSC FSFD 57x-*M	12
WSC RKC 57x-*M	12
WSC WKC 57x-*M	12
WSC WSC 57x-*M	12

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 - Bauform *multimodul*
 - Bauform *multisafe*®
- Allgemeine Informationen
- ☐ Interfacetechnik auf 19"-Karte
 - Bauform *multicart*®
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- ☐ Bussystem *sensoplex*® 2Ex
- ☐ Bussystem *sensoplex*® MC
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 - *multimodul* style
 - *multisafe*® style
- general information
- ☐ devices on 19" card
 - *multicart*® style
- ☐ miniature relays, industrial relays, time cubes, sockets
- ☐ programmable relays and timers
- ☐ explosion protection – basics for practical application (overview poster)
- ☐ CD-ROM Interface technology

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D-45466 Mülheim an der Ruhr

Phone (+49) (2 08) 49 52-0

Fax (+49) (2 08) 49 52-264

E-Mail turckmh@mail.turck-globe.de

Internet www.turck.com

TURCK WORLD-WIDE HEADQUARTERS

GERMANY

Hans Turck GmbH & Co. KG
Witzlebenstraße 7
D-45472 Mülheim an der Ruhr
P. O. Box 45466 Mülheim an der Ruhr
Phone (+49) (2 08) 49 52-0
Fax (+49) (2 08) 49 52-2 64
E-Mail turckmh@mail.turck-globe.de

BELGIUM

Multiprox N. V.
P. B. 71
Lion d'Orweg 12
B-9300 Aalst
Phone (+32) (53) 76 65 66
Fax (+32) (53) 78 39 77
E-Mail mail@multiprox.be

BRAZIL

TURCK Ltda.
Rua Apucarana 134
BR-83324-040 Pinhais
Phone (+55) (41) 6 68 20 53
Fax (+55) (41) 6 68 17 94
E-Mail turck@softone.com.br

CZECH REPUBLIC

TURCK s.r.o.
Hradecká 1151
CZ-500 03 Hradec Králové 3
Phone (+420) (49) 5 21 07 66
Fax (+420) (49) 5 21 07 67
E-Mail turck@turck.cz

PR OF CHINA

TURCK (Tianjin) Sensor Co. Ltd.
40, Yibin Road / Nankai District
TJ-300113 Tianjin
Phone (+86) (22) 27 62 31 40
Fax (+86) (22) 27 61 46 50
E-Mail turcktj@public1.tpt.tj.cn

EASTERN EUROPE

Hans Turck GmbH & Co. KG
Am Bockwald 2
D-08340 Beierfeld
Phone (+49) (37 74) 1 35-0
Fax (+49) (37 74) 1 35-2 22

FRANCE

TURCK BANNER S.A.S
47, Avenue de l'Europe
Marne la Vallée
F-77184 Emerainville
Phone (+33) (1) 64 61 96 40
Fax (+33) (1) 64 61 68 62
E-Mail info@turckbanner.fr

GREAT BRITAIN

TURCK BANNER LIMITED
Stephenson Road
GB-Leigh-on-Sea, Essex SS9 5LS
Phone (+44) (17 02) 52 51 86
Fax (+44) (17 02) 42 09 34
E-Mail info@turckbanner.co.uk

HUNGARY

TURCK Hungary kft.
Hidegkúti út. 282.
H-1028. Budapest
Phone (+36) (1) 3 91 01 19
Fax (+36) (1) 3 97 54 61
E-Mail turck@turck.hu

ITALY

TURCK S. R. L.
Via Adamello, 9
I-20010 Bareggio (MI)
Phone (+39) (02) 90 36 42 91
Fax (+39) (02) 90 36 48 38
E-Mail turck srl@bigfoot.com

KOREA

Turck Korea Branch Office
Sangwoo Building 4th Floor, 1576-1
Jeongwang-Dong, Shiheung-City
ROK-Kyunggi-do, Korea
Phone (+82) (31) 4 98 84 33
Fax (+82) (31) 4 98 84 36
E-Mail sensor@sensor.co.kr

THE NETHERLANDS

TURCK B. V.
Postbus 297
NL-8000 AG Zwolle
Phone (+31) (38) 4 22 77 50
Fax (+31) (38) 4 22 74 51
E-Mail info@turck.nl

USA

TURCK Inc.
3000 Campus Drive
USA-Minneapolis, MN 55441-2656
Phone (+1) (7 63) 5 53-92 24
5 53-73 00
Fax (+1) (7 63) 5 53-07 08
E-Mail mailbag@turck.com

NORTH AND SOUTH AMERICA

(only for fieldbus solutions)
InterlinkBT™
A Banner-Turck Bus Products Company
3000 Campus Drive
USA-Minneapolis, MN 55441-2656
Phone (+1) (7 63) 6 94-23 00
Fax (+1) (7 63) 6 94-23 99
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