



# Hose couplings

System "Storz" - TW DIN 28 450 - KAMLOK DIN 2828  
with built-in limit switch to signalize during the filling process of silos  
or tanks and at coupling stations (Blank caps do not actuate the limit switch)



## Appliance information

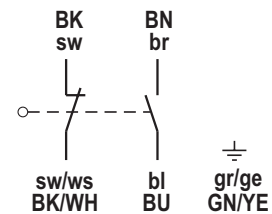
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<b>Technical data sheets limit switches . . . . .</b>	<b>KE-TD- 01...10</b>
Seals, chains with S-hooks . . . . .	KE-TD-11

## Technical data

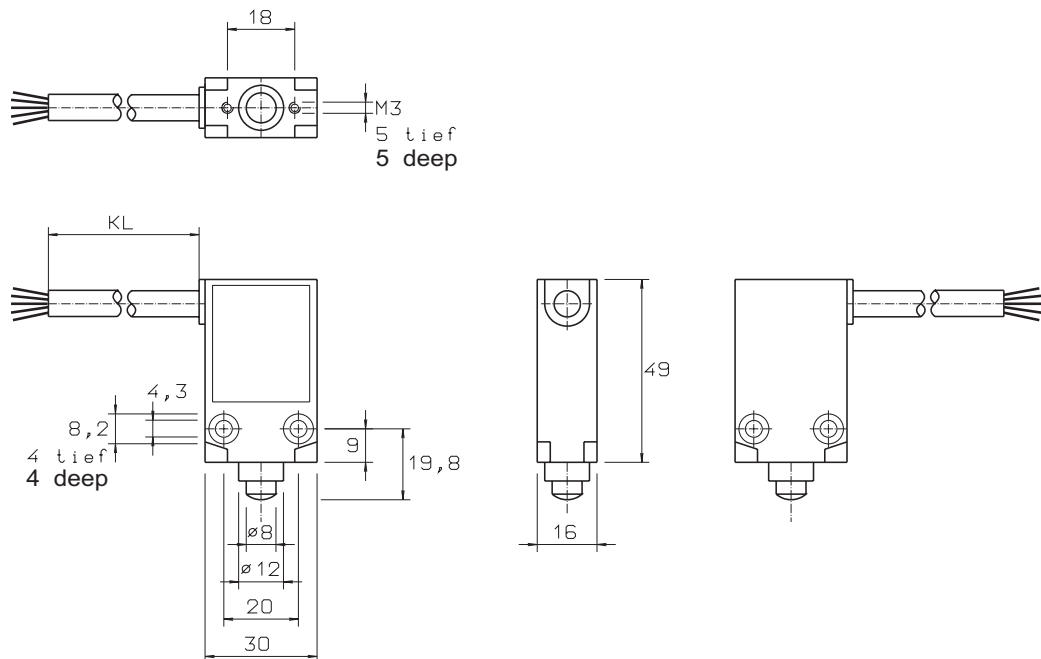
Materials	Zn-Al alloy
Varnish coating	red
Mounting position	any
Ambient temperature	-25 °C up to +70 °C
Capacity of the contact	1,5 A / 250 V AC
Switching function	1 NC and 1 NO
Type of protection	IP67 acc. to DIN EN 60529
Maintenance	none
Option	<b>B0</b> Ex II 3D T 80 °C IP67
Option	<b>B8</b> Ex II 3GD EEx nL T6 T70 °C IP67

## Wiring connection

Cable	5 x 0,75 mm <sup>2</sup>
Cable length (KL)	2 = 2 m
	5 = 5 m
	0 = 10 m



## Measurements



### Order code

<b>KE-XCM-A110-2</b>	for 2 m cable
<b>KE-XCM-A110-5</b>	for 5 m cable
<b>KE-XCM-A110-0</b>	for 10 m cable

ATEX-Option **Dust**



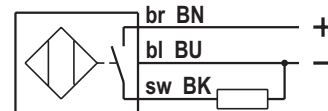
for limit switch with Ex type of protection Ex II 3D T 80 °C IP67 attach **B0** behind the order code  
for limit switch with Ex type of protection Ex II 3GD EEx nL T6 T70 °C IP67 attach **B8**

## Technical data

<b>Materials</b>	switch active surface	CuZn, chromium plated PA12-GF30
	clamping bracket	AlMgSi1
<b>Mounting position</b>		any
<b>Ambient temperature</b>		-20 °C up to +60 °C
<b>Supply voltage</b>		10 ... 30 V DC
<b>Load current capacity</b>		≤ 200 mA, constant current
<b>Switching function</b>		PNP, Normally open
<b>Type of protection</b>		IP67 acc. to DIN EN 60529
<b>Maintenance</b>		none
<b>Option</b>	<b>B0</b>	⊕ II 3D T 90 °C IP67

## Wiring connection

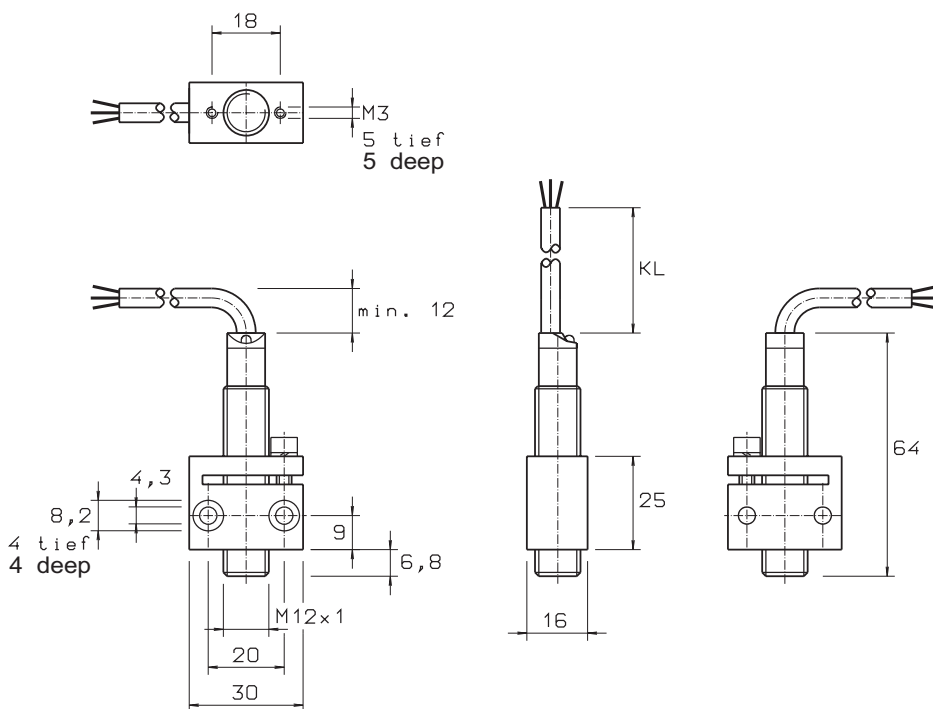
<b>Cable</b>		3 x 0,34 mm <sup>2</sup>
<b>Cable length (KL)</b>	<b>2</b>	= 2 m
	<b>5</b>	= 5 m
	<b>0</b>	= 10 m



TURCK Bi3U

## Measurements

### KI-XCK-BI3U-7- .

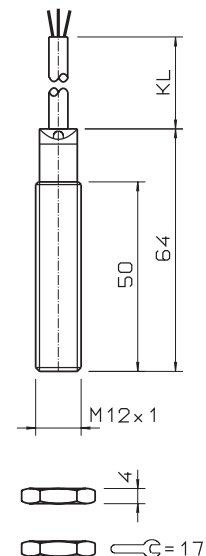


#### Order code

<b>KI-XCK-BI3U-7-2</b>	for 2 m cable
<b>KI-XCK-BI3U-7-5</b>	for 5 m cable
<b>KI-XCK-BI3U-7-0</b>	for 10 m cable

### KI-BI3U-M12AP- .

<b>Brand</b>	TURCK
<b>Type</b>	Bi3U-M12-AP6X
<b>Ident no.</b>	16 341 00



#### Order code

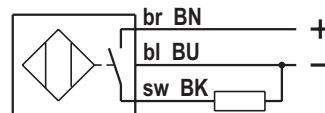
<b>KI-BI3U-M12AP-2</b>	for 2 m cable
<b>KI-BI3U-M12AP-5</b>	for 5 m cable
<b>KI-BI3U-M12AP-0</b>	for 10 m cable

## Technical data

<b>Materials</b>	switch active surface	CuZn, nickel plated PA12
	housing	Zn-Al alloy
<b>Varnish coating</b>		red
<b>Mounting position</b>		any
<b>Ambient temperature</b>		-20 °C up to +60 °C
<b>Supply voltage</b>		10 ... 30 V DC
<b>Load current capacity</b>		≤ 200 mA, constant current
<b>Switching function</b>		PNP, Normally open
<b>Type of protection</b>		IP68 acc. to DIN EN 60529
<b>Maintenance</b>		none
<b>Option</b>	<b>B0</b>	⊕ II 3D T 90 °C IP68

## Wiring connection

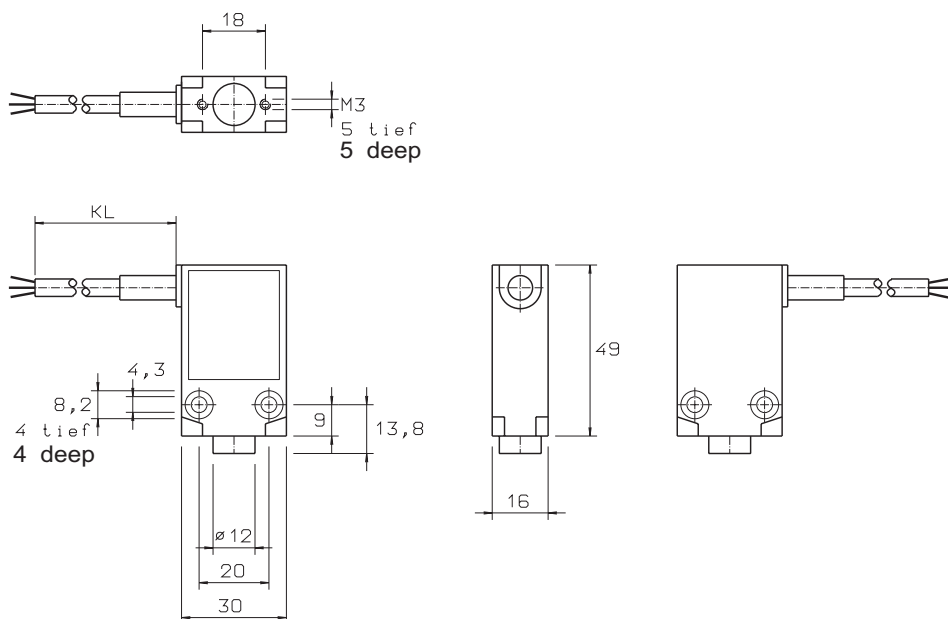
<b>Cable</b>		3 x 0,34 mm <sup>2</sup>
<b>Cable length (KL)</b>	<b>2</b>	= 2 m
	<b>5</b>	= 5 m
	<b>0</b>	= 10 m



BALLUFF 356

## Measurements

### KI-XCM-B356-5- .

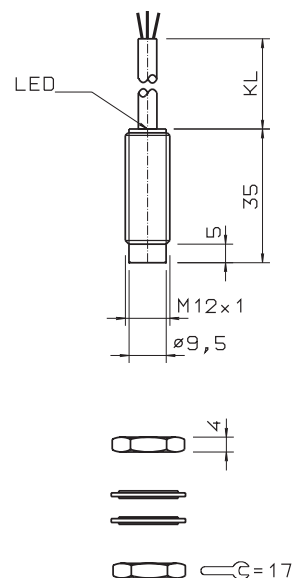


#### Order code

<b>KI-XCM-B356-5-2</b>	for 2 m cable
<b>KI-XCM-B356-5-5</b>	for 5 m cable
<b>KI-XCM-B356-5-0</b>	for 10 m cable

### KI-B516-356E4- .

<b>Brand</b>	BALLUFF
<b>Type</b>	BES 516-356-E4-...



#### Order code

<b>KI-B516-356E4-2</b>	for 2 m cable
<b>KI-B516-356E4-5</b>	for 5 m cable
<b>KI-B516-356E4-0</b>	for 10 m cable

ATEX-Option **Dust**



for Ex type of protection ⊕ II 3D T 90 °C IP68  
 attach **B0** behind the order code

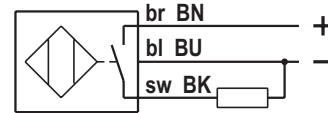
further technical data you can get under  
[www.balluff.de](http://www.balluff.de)

## Technical data

<b>Materials</b>	housing	CuZn, nickel plated
	active surface	PA12
	adjusting screw	CuZn, nickel plated
<b>Mounting position</b>		any
<b>Ambient temperature</b>		-20 °C up to +60 °C
<b>Supply voltage</b>		10 ... 30 V DC
<b>Load current capacity</b>		≤ 200 mA, constant current
<b>Switching function</b>		PNP, Normally open
<b>Type of protection</b>		IP68 acc. to DIN EN 60529
<b>Maintenance</b>		none
<b>Option</b>	<b>B0</b>	⊕ II 3D T 90 °C IP68

## Wiring connection

<b>Cable</b>		3 x 0,34 mm <sup>2</sup>
<b>Cable length (KL)</b>	<b>2</b>	= 2 m
	<b>5</b>	= 5 m
	<b>0</b>	= 10 m

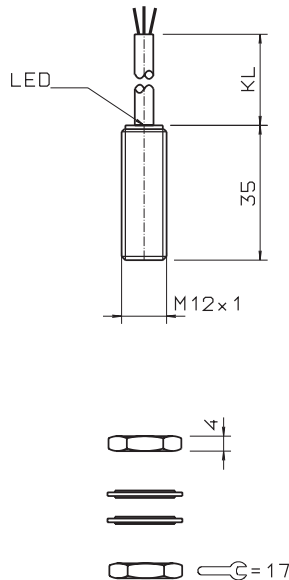


BALLUFF 325

## Measurements

### KI-B516-325-E4- .

<b>Brand</b>	BALLUFF
<b>Type</b>	BES 516-325-E4-...

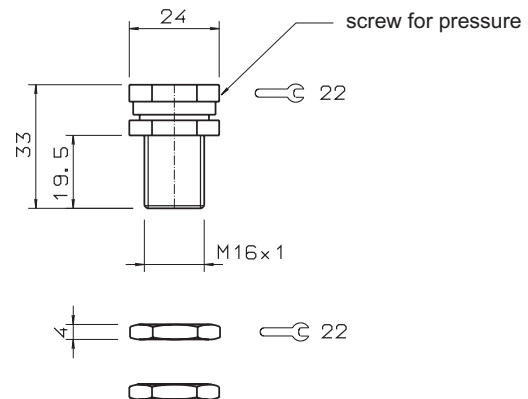


#### Order code

<b>KI-B516-325-E4-2</b>	for 2 m cable
<b>KI-B516-325-E4-5</b>	for 5 m cable
<b>KI-B516-325-E4-0</b>	for 10 m cable

### Adjusting screw K-KH-12-2S

<b>Brand</b>	BALLUFF
<b>Type</b>	KH-12-2S



#### Order code

**K-KH-12-2S**

**ATEX-Option Dust**

for Ex type of protection II 3D T 90 °C IP68  
 attach **B0** behind the order code

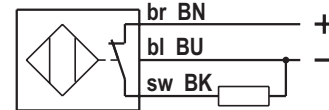
further technical data you can get under  
[www.balluff.de](http://www.balluff.de)

## Technical data

<b>Materials</b>	switch active surface	CuZn, nickel plated PA12
	housing	Zn-Al alloy
<b>Varnish coating</b>		red
<b>Mounting position</b>		any
<b>Ambient temperature</b>		-20 °C up to +60 °C
<b>Supply voltage</b>		10 ... 30 V DC
<b>Load current capacity</b>		≤ 200 mA, constant current
<b>Switching function</b>		PNP, Normally closed
<b>Type of protection</b>		IP68 acc. to DIN EN 60529
<b>Maintenance</b>		none
<b>Option</b>	<b>B0</b>	II 3D T 90 °C IP68

## Wiring connection

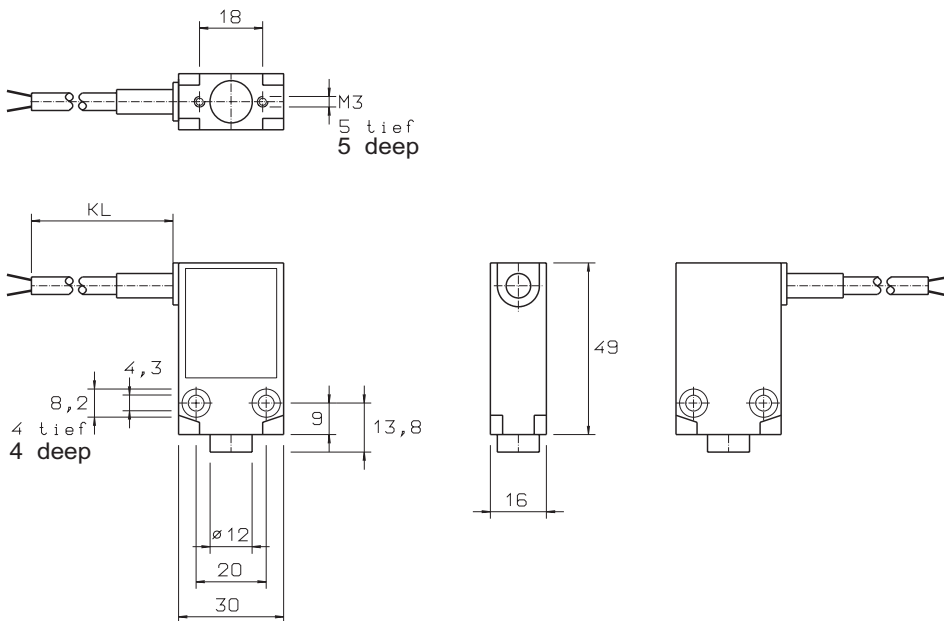
<b>Cable</b>		3 x 0,34 mm <sup>2</sup>
<b>Cable length (KL)</b>	<b>2</b>	= 2 m
	<b>5</b>	= 5 m
	<b>0</b>	= 10 m



BALLUFF 3019

## Measurements

### KI-XCM-3019-5- .

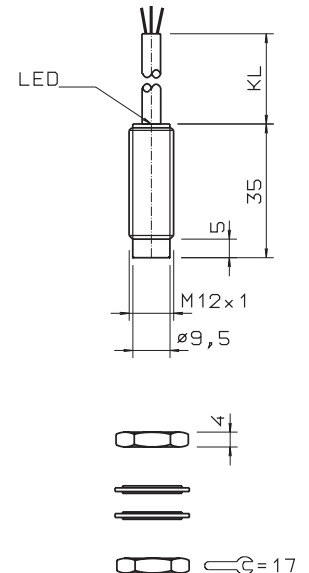


#### Order code

<b>KI-XCM-3019-5-2</b>	for 2 m cable
<b>KI-XCM-3019-5-5</b>	for 5 m cable
<b>KI-XCM-3019-5-0</b>	for 10 m cable

### KI-B516-3019E- .

<b>Brand</b>	BALLUFF
<b>Type</b>	BES 516-3019-E4-Y-



#### Order code

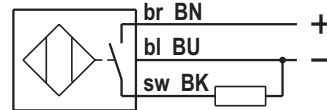
<b>KI-B516-3019E-2</b>	for 2 m cable
<b>KI-B516-3019E-5</b>	for 5 m cable
<b>KI-B516-3019E-0</b>	for 10 m cable

### Technical data

<b>Materials</b>	switch active surface	CuZn, chromium plated PA12-GF30
	clamping bracket	AlMgSi1
<b>Mounting position</b>		any
<b>Ambient temperature</b>		-20 °C up to +60 °C
<b>Supply voltage</b>		10 ... 30 V DC
<b>Load current capacity</b>		≤ 200 mA, constant current
<b>Switching function</b>		PNP, Normally open
<b>Type of protection</b>		IP67 acc. to DIN EN 60529
<b>Maintenance</b>		none
<b>Option</b>	<b>B0</b>	⊕ II 3D T 90 °C IP67

### Wiring connection

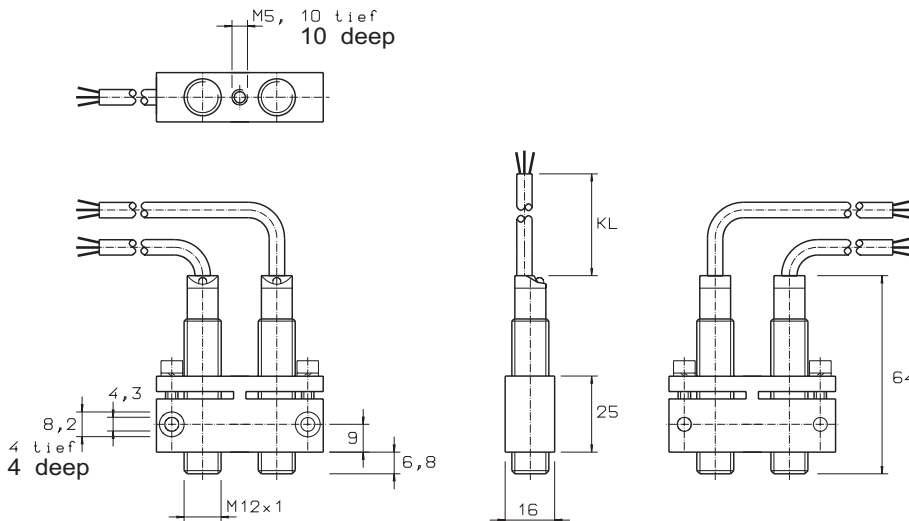
<b>Cable</b>		3 x 0,34 mm <sup>2</sup>
<b>Cable length (KL)</b>	<b>2</b>	= 2 m
	<b>5</b>	= 5 m
	<b>0</b>	= 10 m



TURCK BI3U

### Measurements

#### KI2XCK-BI3U-7- .

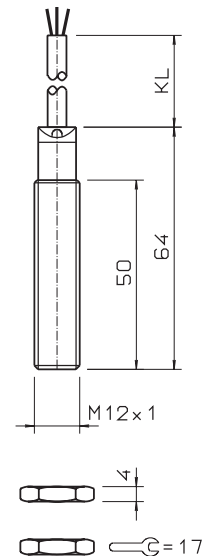


#### Order code

<b>KI2XCK-BI3U-7-2</b>	for 2 m cable
<b>KI2XCK-BI3U-7-5</b>	for 5 m cable
<b>KI2XCK-BI3U-7-0</b>	for 10 m cable

#### KI-BI3U-M12AP- .

<b>Brand</b>	TURCK
<b>Type</b>	Bi3U-M12-AP6X
<b>Ident no.</b>	16 341 00



#### Order code

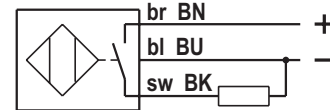
<b>KI-BI3U-M12AP-2</b>	for 2 m cable
<b>KI-BI3U-M12AP-5</b>	for 5 m cable
<b>KI-BI3U-M12AP-0</b>	for 10 m cable

### Technical data

<b>Materials</b>	switch active surface	CuZn, chromium plated PA12-GF30
	clamping bracket	AlMgSi1
<b>Mounting position</b>		any
<b>Ambient temperature</b>		-20 °C up to +60 °C
<b>Supply voltage</b>		10 ... 30 V DC
<b>Load current capacity</b>		≤ 200 mA, constant current
<b>Switching function</b>		PNP, Normally open
<b>Type of protection</b>		IP67 acc. to DIN EN 60529
<b>Maintenance</b>		none
<b>Option</b>	B0	⊕ II 3D T 90 °C IP67

### Wiring connection

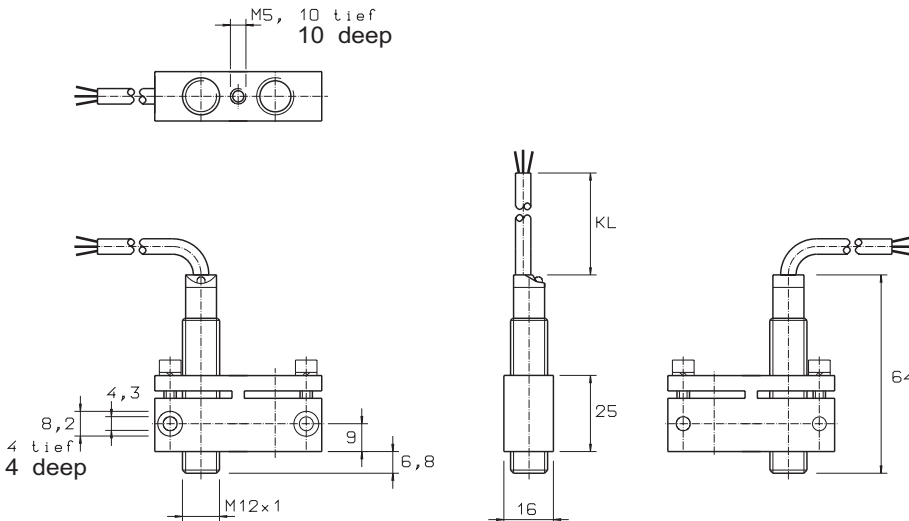
<b>Cable</b>		3 x 0,34 mm <sup>2</sup>
<b>Cable length (KL)</b>	2	= 2 m
	5	= 5 m
	0	= 10 m



TURCK Bi3U

### Measurements

#### KI1XCK-BI3U-7- .

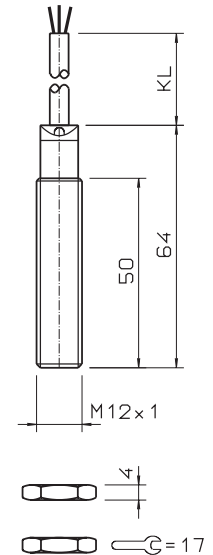


#### Order code

<b>KI1XCK-BI3U-7-2</b>	for 2 m cable
<b>KI1XCK-BI3U-7-5</b>	for 5 m cable
<b>KI1XCK-BI3U-7-0</b>	for 10 m cable



#### KI-BI3U-M12AP- .

<b>Brand</b>	TURCK
<b>Type</b>	Bi3U-M12-AP6X
<b>Ident no.</b>	16 341 00



#### Order code

<b>KI-BI3U-M12AP-2</b>	for 2 m cable
<b>KI-BI3U-M12AP-5</b>	for 5 m cable
<b>KI-BI3U-M12AP-0</b>	for 10 m cable

**ATEX-Option Dust**  for Ex type of protection  II 3D T 90 °C IP67  
attach B0 behind the order code

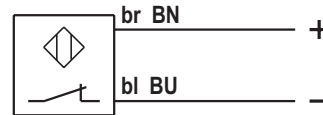
further **technical data** you can get under  
[www.turck.de](http://www.turck.de)

## Technical data

<b>Materials</b>	switch	PBTP (Polybutylenterephthalat)
	clamping bracket	AlMgSi1
<b>Mounting position</b>		any
<b>Ambient temperature</b>		-25 °C up to +60 °C
<b>Nominal voltage</b>		8 V DC (Ri approx. 1 k Ω)
<b>Power consumption</b>	activated:	1 mA
	not activated:	3 mA
<b>Type of protection</b>		IP68 acc. DIN EN 60529
<b>Maintenance</b>		none
<b>Ex type of protection</b>		⊕ II 2G EEx ia IIC T6 and ⊕ II 1D Ex iaD 20 T... °C

## Wiring connection

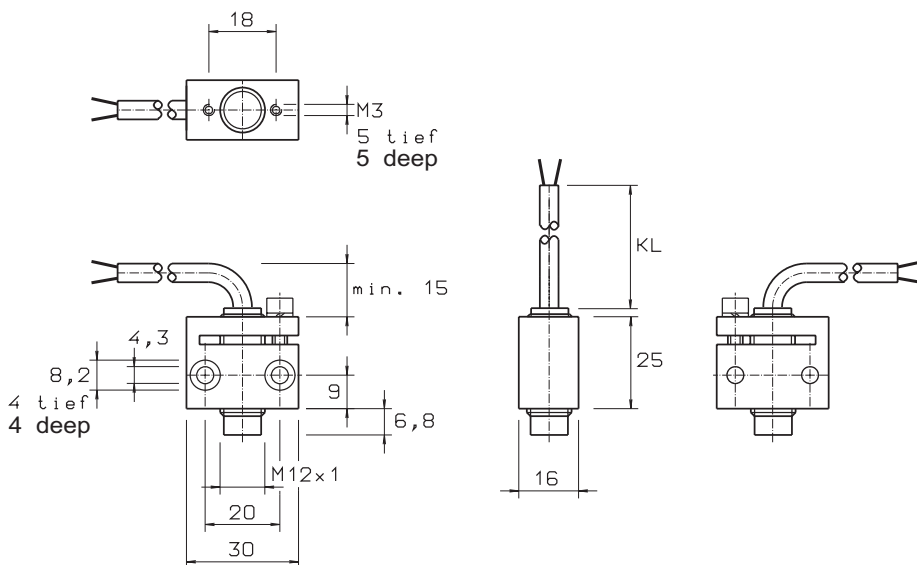
<b>Cable</b>		2 x 0,34 mm <sup>2</sup>
<b>Cable length</b>	(KL)	2 = 2 m 5 = 5 m 0 = 10 m



Pepperl+Fuchs NJ4

## Measurements

### KN-XCK-NJ4K-7- .

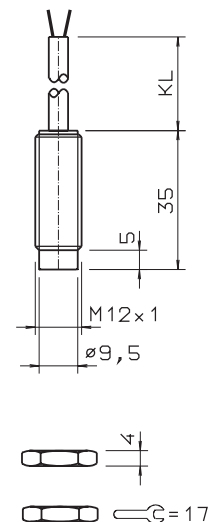


#### Order code

**KN-XCK-NJ4K-7-2** for 2 m cable  
**KN-XCK-NJ4K-7-5** for 5 m cable  
**KN-XCK-NJ4K-7-0** for 10 m cable

### KN-NJ4K-M12- .

**Brand** Pepperl+Fuchs  
**Type** NJ4-12GK-N



#### Order code

**KN-NJ4K-M12-2** for 2 m cable  
**KN-NJ4K-M12-5** for 5 m cable  
**KN-NJ4K-M12-0** for 10 m cable

Gas II 2G EEx ia IIC T6

Dust II 1D Ex iaD 20 T... °C

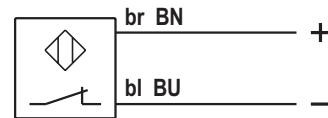
further technical data you can get under  
[www.pepperl-fuchs.de](http://www.pepperl-fuchs.de)

### Technical data

<b>Materials</b>	switch	PBTP (Polybutylenterephthalat)
	clamping bracket	AlMgSi1
<b>Mounting position</b>		any
<b>Ambient temperature</b>		-25 °C up to +60 °C
<b>Nominal voltage</b>		8 V DC (Ri approx. 1 k Ω)
<b>Power consumption</b>	activated:	1 mA
	not activated:	3 mA
<b>Type of protection</b>		IP68 acc. DIN EN 60529
<b>Maintenance</b>		none
<b>Ex type of protection</b>		⊕ II 2G EEx ia IIC T6 and ⊕ II 1D Ex iaD 20 T... °C

### Wiring connection

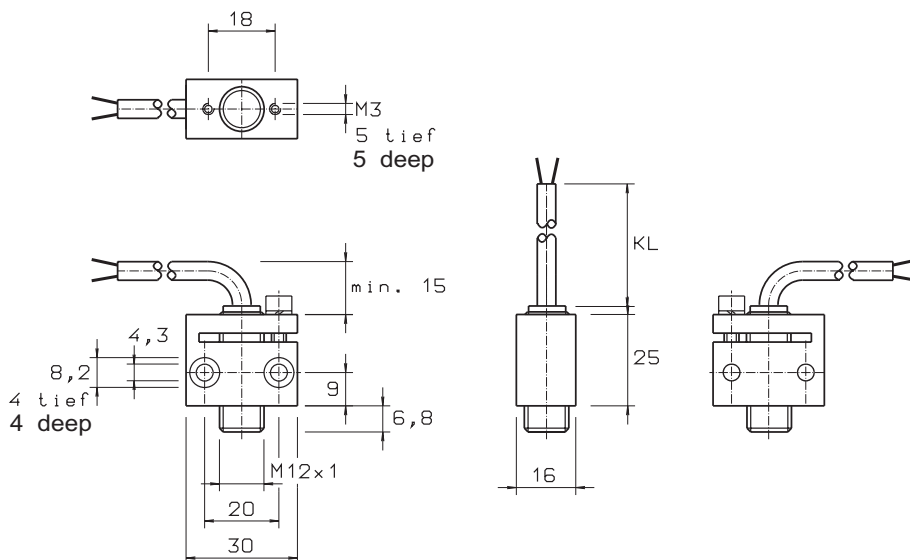
<b>Cable</b>		2 x 0,34 mm <sup>2</sup>
<b>Cable length</b>	(KL)	2 = 2 m 5 = 5 m 0 = 10 m



Pepperl+Fuchs NJ2

### Measurements

#### KN-XCK-NJ2K-7- .

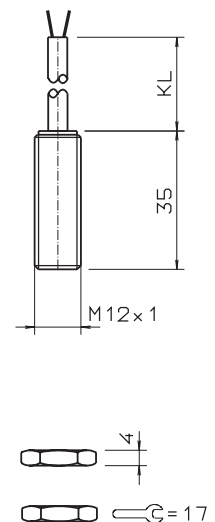


#### Order code

**KN-XCK-NJ2K-7-2** for 2 m cable  
**KN-XCK-NJ2K-7-5** for 5 m cable  
**KN-XCK-NJ2K-7-0** for 10 m cable

#### KN-NJ2K-M12- .

**Brand Type** Pepperl+Fuchs NJ2-12GK-N



#### Order code

**KN-NJ2K-M12-2** for 2 m cable  
**KN-NJ2K-M12-5** for 5 m cable  
**KN-NJ2K-M12-0** for 10 m cable

further technical data you can get under  
[www.pepperl-fuchs.de](http://www.pepperl-fuchs.de)

Gas II 2G EEx ia IIC T6

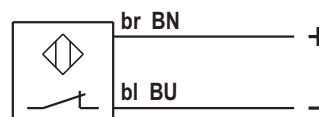
Dust II 1D Ex iaD 20 T... °C

## Technical data

<b>Materials</b>	switch	PBTP (Polybutylenterephthalat)
	housing	Zn-Al alloy
<b>Varnish coating</b>		red
<b>Mounting position</b>		any
<b>Ambient temperature</b>		-25 °C up to +60 °C
<b>Nominal voltage</b>		8 V DC (Ri approx. 1 k )
<b>Power consumption</b>	activated:	1 mA
	not activated:	3 mA
<b>Type of protection</b>		IP68 acc. DIN EN 60529
<b>Maintenance</b>		none
<b>Ex type of protection</b>		⊕ II 2G EEx ia IIC T6 and ⊕ II 1D Ex iaD 20 T... °C

## Wiring connection

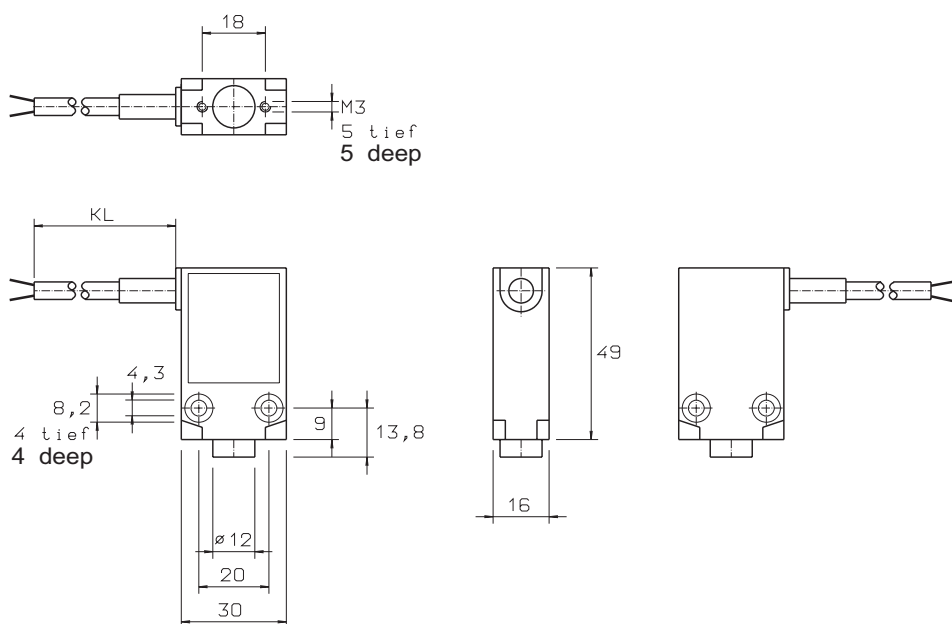
<b>Cable</b>		2 x 0,34 mm <sup>2</sup>
<b>Cable length</b>	(KL)	2 = 2 m 5 = 5 m 0 = 10 m



Pepperl+Fuchs NJ4

## Measurements

### KN-XCM-NJ4K-5- .

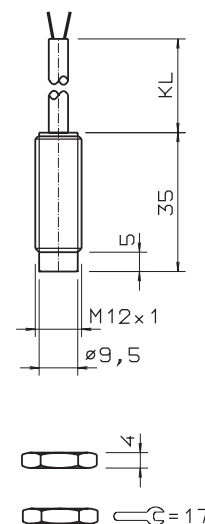


#### Order code

<b>KN-XCM-NJ4K-5-2</b>	for 2 m cable
<b>KN-XCM-NJ4K-5-5</b>	for 5 m cable
<b>KN-XCM-NJ4K-5-0</b>	for 10 m cable

### KN-NJ4K-M12- .

<b>Brand</b>	Pepperl+Fuchs
<b>Type</b>	NJ4-12GK-N



#### Order code

<b>KN-NJ4K-M12-2</b>	for 2 m cable
<b>KN-NJ4K-M12-5</b>	for 5 m cable
<b>KN-NJ4K-M12-0</b>	for 10 m cable

Gas II 2G EEx ia IIC T6

Dust II 1D Ex iaD 20 T... °C

further technical data you can get under  
[www.pepperl-fuchs.de](http://www.pepperl-fuchs.de)