



# Hose couplings

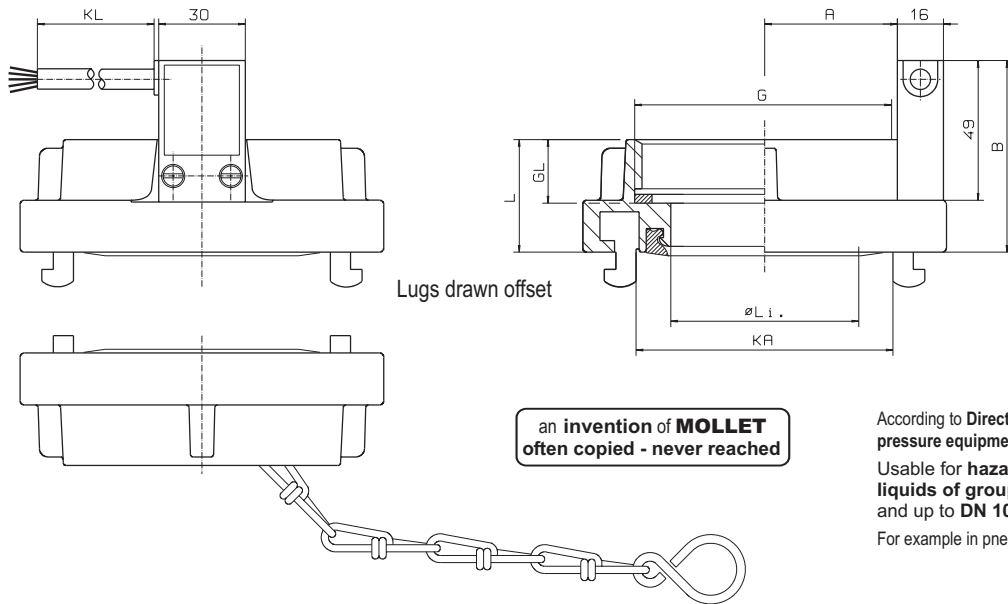
System "Storz" - TW DIN 28 450 - KAMLOK DIN 2828  
with built-in limit switch to signalize during the filling process of silos  
or tanks and at coupling stations (Blank caps do not actuate the limit switch)



## Appliance information

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### Measurements



Type	NG	G	W	KL	KA	Li.	L	GL	A	B
KE - SZ 052	IG2	AL	2	66	44,5	40	20	32	66	66
KE - SZ 065	IG2	AL	2	81	45	37	20	42	66	66
KE - SZ 065	IG2½	AL	2	81	58	52	20	42	66	66
KE - SZ 075	IG2	AL	2	89	50	38	20	42	67	67
KE - SZ 075	IG2½	AL	2	89	64,5	42	20	42	67	67
KE - SZ 075	IG3	AL	2	89	64,5	39	22	45	67	67
KE - SZ 090	IG3	AL	2	105	78	40	22	50	68	68
KE - SZ 100	IG4	AL	2	115	89,5	47	25	50	71	71
KE - SZ 110	IG4	AL	2	133	100	48	25	68	71	71
KE - SZ 110	IG4½	AL	2	133	100	48	25	68	71	71
KE - SZ 125	IG5	AL	2	148	115	52	28	75	73	73
KE - SZ 150	IG6	AL	2	160	130	60	30	85	75	75

According to Directive 97/23/EC for pressure equipment:  
Usable for hazardous gases and liquids of group 1 up to 10 bar and up to DN 100  
For example in pneumatic conveyor

Result of the evaluation of ignition danger acc. to DIN EN 13463-1:  
The couplings have no potential source of ignition on their own and are in accordance with  
**II 1(i)/2(o)GD c IIC T X**

NG = Nominal size  
G = Thread  
W = Material  
KL = Cable length  
KA = Lug distance  
Li. = Inner diameter

ATEX-Option **Gas+Dust**

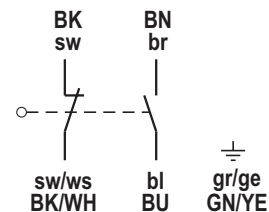
for limit switch with Ex type of protection II 3D T 80 °C IP67 attach B0 behind the order code  
for limit switch with Ex type of protection II 3GD EEx nL T6 T 70 °C IP67 attach B8

### Technical data

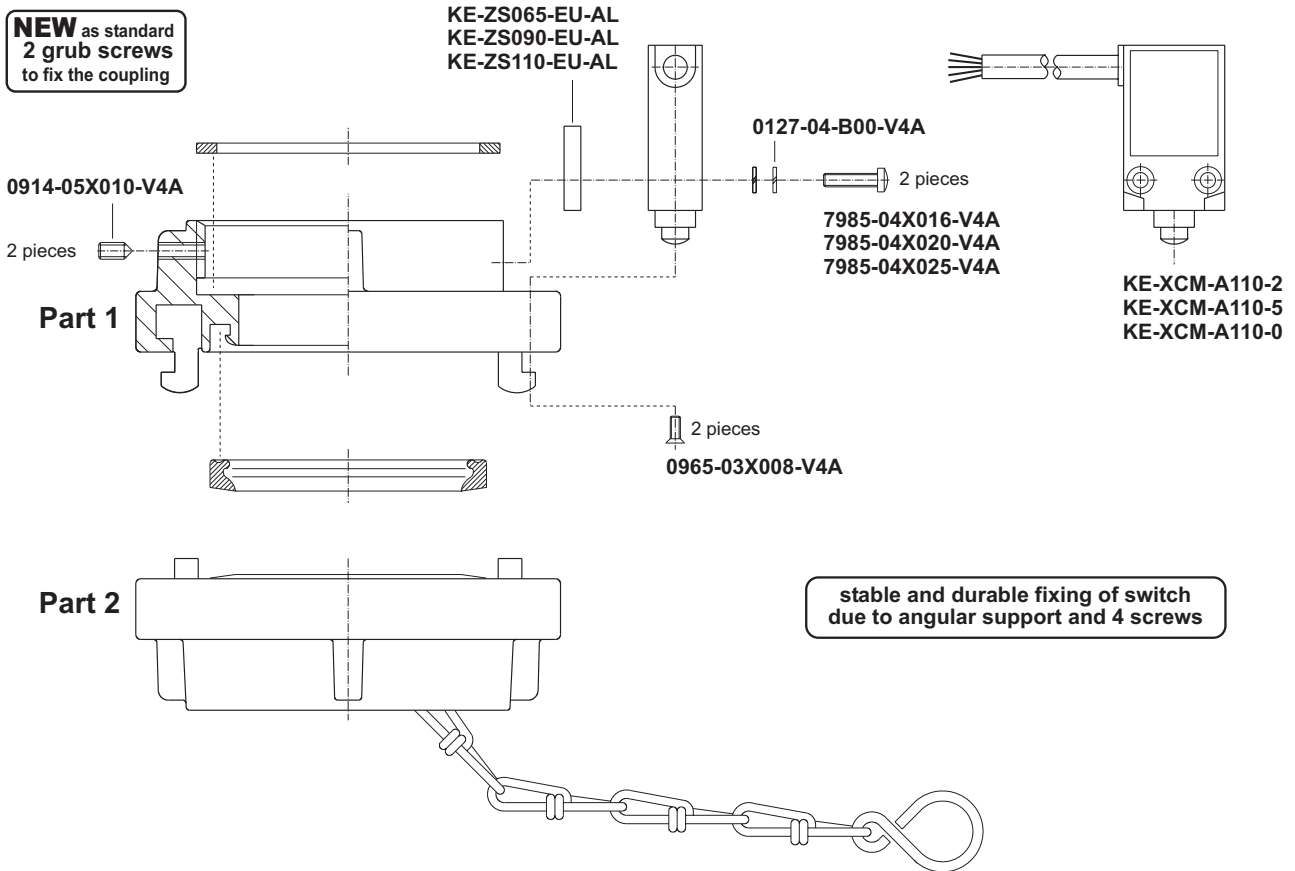
Materials	(W)	AL = Aluminium AV = Aluminium/1.4571 MS = Brass VA = Stainless steel 316L
switch		Zn-Al alloy
Varnish coating	switch	red
Mounting position		any
Ambient temperature		-25 °C up to +70 °C
Capacity of the contact		1,5 A / 250 V AC
Switching function		1 NC and 1 NO
Type of protection		IP67 acc. to DIN EN 60529
Maintenance		none
Option (switch)	B0	II 3D T 80 °C IP67
Option (switch)	B8	II 3GD EEx nL T6 T 70 °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



## Components



Type	NG	G	W	KL
KE - SZ 052	IG2	AL	2	
KE - SZ 065	IG2	AL	2	
KE - SZ 065	IG2½	AL	2	
KE - SZ 075	IG2	AL	2	
KE - SZ 075	IG2½	AL	2	
KE - SZ 075	IG3	AL	2	
KE - SZ 090	IG3	AL	2	
KE - SZ 100	IG4	AL	2	
KE - SZ 110	IG4	AL	2	
KE - SZ 110	IG4½	AL	2	
KE - SZ 125	IG5	AL	2	
KE - SZ 150	IG6	AL	2	

Part 1	NG	G	W
K - FSZ 052	IG2	AL	E
K - FSZ 065	IG2	AL	E
K - FSZ 065	IG2½	AL	E
K - FSZ 075	IG2	AL	E
K - FSZ 075	IG2½	AL	E
K - FSZ 075	IG3	AL	E
K - FSZ 090	IG3	AL	E
K - FSZ 100	IG4	AL	E
K - FSZ 110	IG4	AL	E
K - FSZ 110	IG4½	AL	E
K - FSZ 125	IG5	AL	E
K - FSZ 150	IG6	AL	E

Part 2	NG	W
K - BSZ052 - 00 - AL - M		
K - BSZ065 - 00 - AL - M		
K - BSZ065 - 00 - AL - M		
K - BSZ075 - 00 - AL - M		
K - BSZ075 - 00 - AL - M		
K - BSZ075 - 00 - AL - M		
K - BSZ075 - 00 - AL - M		
K - BSZ090 - 00 - AL - M		
K - BSZ100 - 00 - AL - M		
K - BSZ110 - 00 - AL - M		
K - BSZ110 - 00 - AL - M		
K - BSZ125 - 00 - AL - M		
K - BSZ150 - 00 - AL - M		

Part 1 incl. seal rings

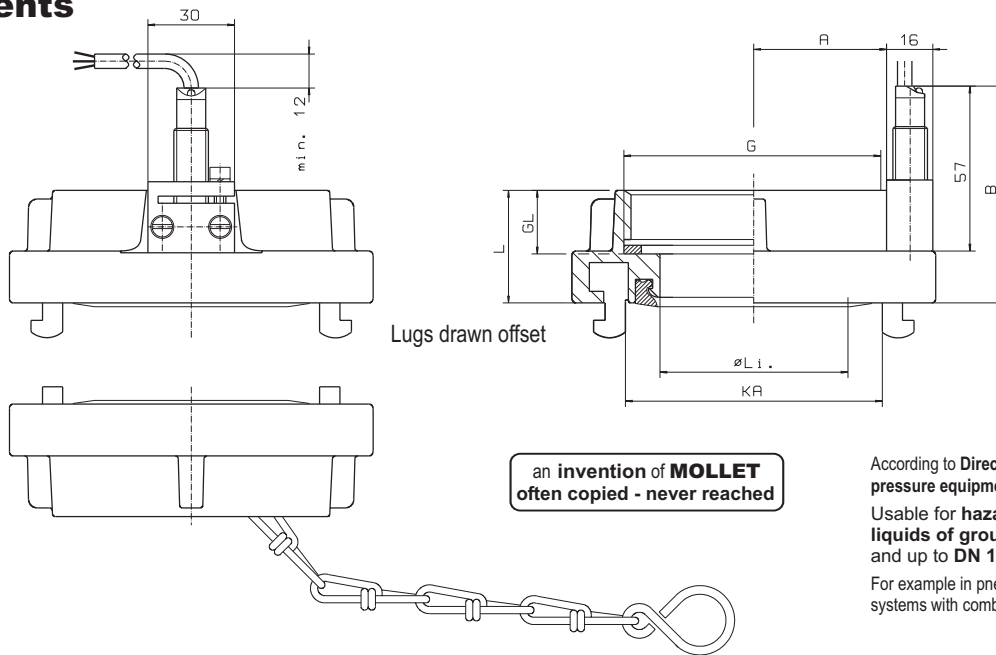
Seal rings and chains depending on the type and acc. to data sheet KE-TD-11

Part 2 incl. seal ring and chain

Materials	AL	=	Aluminium
	AV	=	Aluminium/1.4571
	VA	=	1.4581
	MS	=	Brass

NG = Nominal size  
G = Thread  
W = Material

## Measurements



Type	NG	G	W	KL	KA	Li.	L	GL	A	B
KI - SZ 052	IG2	AL	2	66	44,5	40	20	32	74	
KI - SZ 065	IG2	AL	2	81	45	37	20	42	74	
KI - SZ 065	IG2½	AL	2	81	58	52	20	42	74	
KI - SZ 075	IG2	AL	2	89	50	38	20	42	75	
KI - SZ 075	IG2½	AL	2	89	64,5	42	20	42	75	
KI - SZ 075	IG3	AL	2	89	64,5	39	22	45	75	
KI - SZ 090	IG3	AL	2	105	78	40	22	50	76	
KI - SZ 100	IG4	AL	2	115	89,5	47	25	50	79	
KI - SZ 110	IG4	AL	2	133	100	48	25	68	79	
KI - SZ 110	IG4½	AL	2	133	100	48	25	68	79	
KI - SZ 125	IG5	AL	2	148	115	52	28	75	82	
KI - SZ 150	IG6	AL	2	160	130	60	30	85	83	

According to Directive 97/23/EC for pressure equipment:

Usable for hazardous gases and liquids of group 1 up to 10 bar and up to DN 100

For example in pneumatic conveyor systems with combustible dusts etc.

Result of the evaluation of ignition danger acc. to DIN EN 13463-1:

The couplings have no potential source of ignition on their own and are in accordance with

II 1(i)/2(o)D c T X

NG = Nominal size

G = Thread

W = Material

KL = Cable length

KA = Lug distance

Li. = Inner diameter

ATEX-Option **Dust**



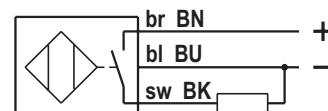
for limit switch with Ex type of protection  $\text{Ex II 3D T 90 °C IP67}$   
attach **B0** behind the order code

## Technical data

<b>Materials</b>	(W)	AL = Aluminium AV = Aluminium/1.4571 MS = Brass VA = Stainless steel 316L
switch active surface		CuZn, chromium plated PA12-GF30
<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 (switch)</b>	<b>B0</b>	$\text{Ex II 3D T 90 °C IP67}$

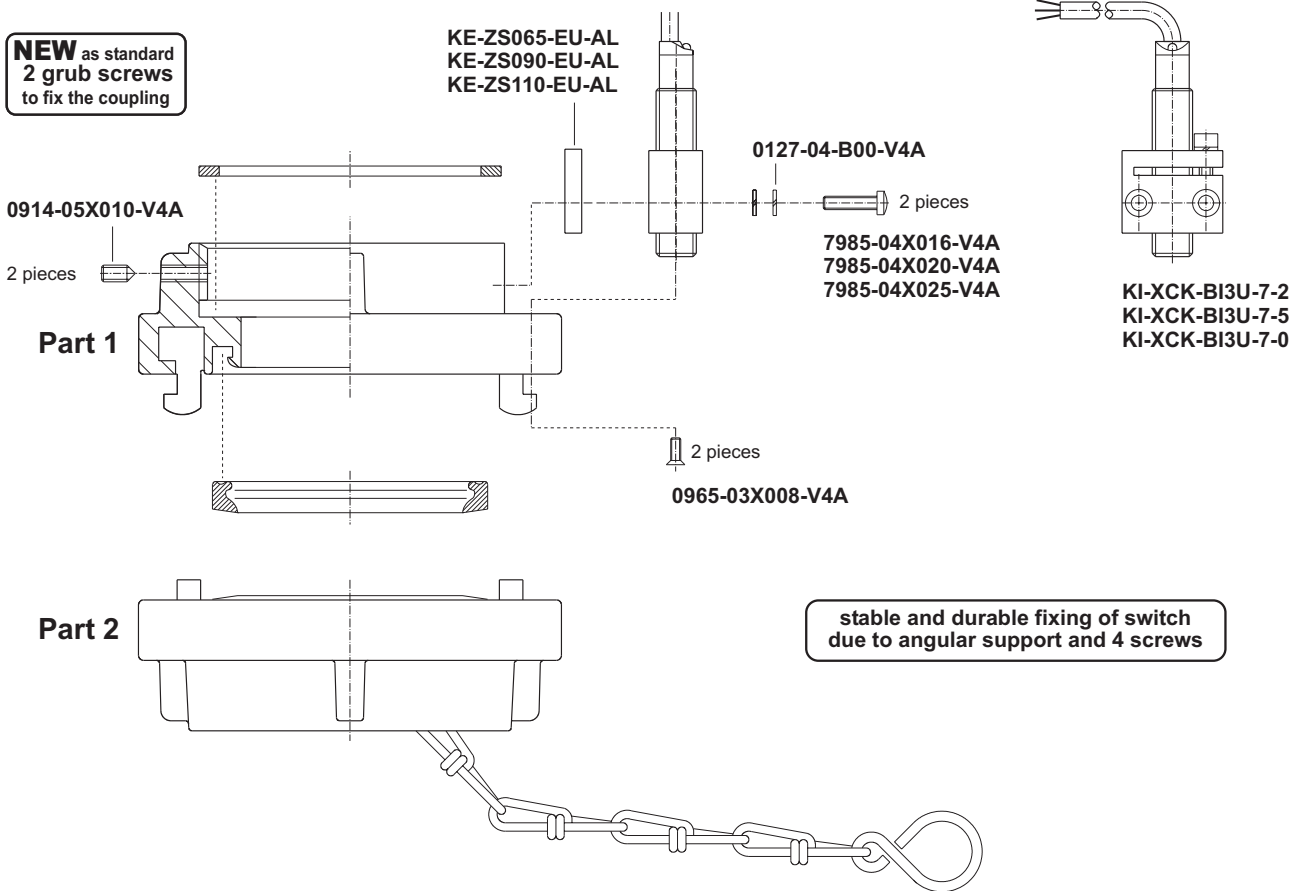
## Wiring connection

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



TURCK BI3U

## Components



Type	NG	G	W	KL	Part 1	NG	G	W	Part 2	NG	W
KI - SZ 052	IG2	AL	2		K - FSZ 052	IG2	AL	E	K - BSZ052 - 00 - AL - M		
KI - SZ 065	IG2	AL	2		K - FSZ 065	IG2	AL	E	K - BSZ065 - 00 - AL - M		
KI - SZ 065	IG2½	AL	2		K - FSZ 065	IG2½	AL	E	K - BSZ065 - 00 - AL - M		
KI - SZ 075	IG2	AL	2		K - FSZ 075	IG2	AL	E	K - BSZ075 - 00 - AL - M		
KI - SZ 075	IG2½	AL	2		K - FSZ 075	IG2½	AL	E	K - BSZ075 - 00 - AL - M		
KI - SZ 075	IG3	AL	2		K - FSZ 075	IG3	AL	E	K - BSZ075 - 00 - AL - M		
KI - SZ 090	IG3	AL	2		K - FSZ 090	IG3	AL	E	K - BSZ090 - 00 - AL - M		
KI - SZ 100	IG4	AL	2		K - FSZ 100	IG4	AL	E	K - BSZ100 - 00 - AL - M		
KI - SZ 110	IG4	AL	2		K - FSZ 110	IG4	AL	E	K - BSZ110 - 00 - AL - M		
KI - SZ 110	IG4½	AL	2		K - FSZ 110	IG4½	AL	E	K - BSZ110 - 00 - AL - M		
KI - SZ 125	IG5	AL	2		K - FSZ 125	IG5	AL	E	K - BSZ125 - 00 - AL - M		
KI - SZ 150	IG6	AL	2		K - FSZ 150	IG6	AL	E	K - BSZ150 - 00 - AL - M		

Part 1 incl. seal rings

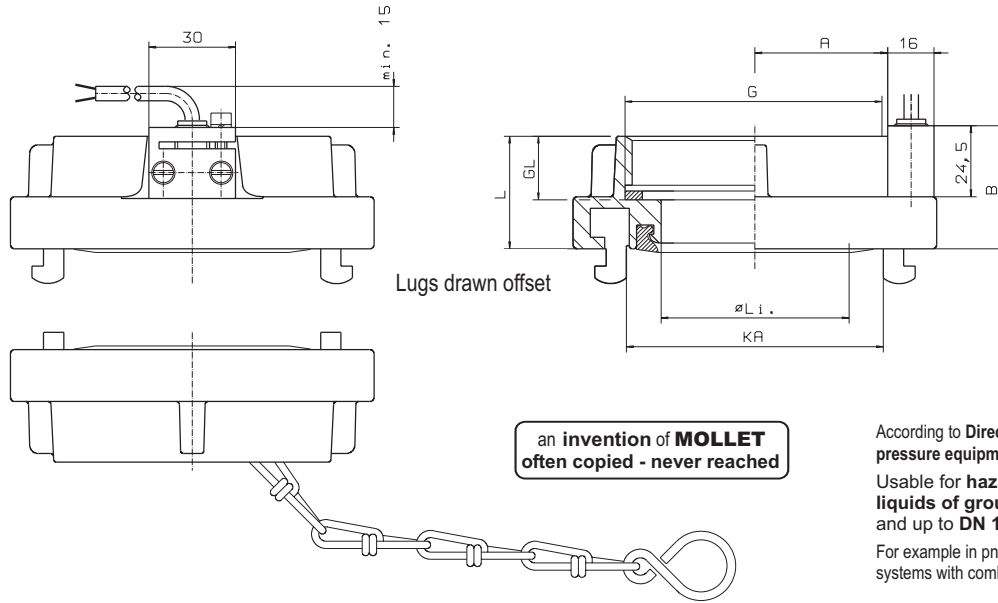
Seal rings and chains depending on the type and acc. to data sheet KE-TD-11.

Part 2 incl. seal ring and chain

Materials	AL	=	Aluminium
	AV	=	Aluminium/1.4571
	VA	=	1.4581
	MS	=	Brass

NG = Nominal size  
G = Thread  
W = Material

## Measurements



Type	NG	G	W	KL	KA	Li.	L	GL	A	B
KN - SZ 052	IG2	AL	2	66	44,5	40	20	32	41,5	
KN - SZ 065	IG2	AL	2	81	45	37	20	42	41,5	
KN - SZ 065	IG2½	AL	2	81	58	52	20	42	41,5	
KN - SZ 075	IG2	AL	2	89	50	38	20	42	42,5	
KN - SZ 075	IG2½	AL	2	89	64,5	42	20	42	42,5	
KN - SZ 075	IG3	AL	2	89	64,5	39	22	45	42,5	
KN - SZ 090	IG3	AL	2	105	78	40	22	50	43,5	
KN - SZ 100	IG4	AL	2	115	89,5	47	25	50	46,5	
KN - SZ 110	IG4	AL	2	133	100	48	25	68	46,5	
KN - SZ 110	IG4½	AL	2	133	100	48	25	68	46,5	
KN - SZ 125	IG5	AL	2	148	115	52	28	75	57,5	
KN - SZ 150	IG6	AL	2	160	130	60	30	85	58,5	

According to Directive 97/23/EC for pressure equipment:  
Usable for hazardous gases and liquids of group 1 up to 10 bar and up to DN 100  
For example in pneumatic conveyor systems with combustible dusts etc.

Result of the evaluation of ignition danger acc. to DIN EN 13463-1:  
The couplings have no potential source of ignition on their own and are in accordance with  
**II 1(i)/2(o)GD c IIC T X**

NG = Nominal size  
G = Thread  
W = Material  
KL = Cable length  
KA = Lug distance  
Li. = Inner diameter

Gas II 2G EEx ia IIC T6

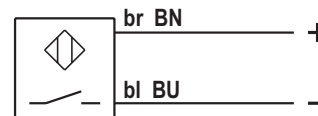
Dust II 1D Ex iaD 20 T... °C

## Technical data

Materials	(W)	AL = Aluminium AV = Aluminium/1.4571 MS = Brass VA = Stainless steel 316L
switch		PBTP (Polybutylenterephthalat)
Mounting position		any
Ambient temperature		-25 °C up to +60 °C
Nominal voltage		8 V DC (Ri approx. 1 k )
Power consumption		activated: 1 mA not activated: 3 mA
Type of protection		IP68 acc. to DIN EN 60529
Maintenance		none
Ex type of protection		II 2G EEx ia IIC T6 and II 1D Ex iaD 20 T... °C

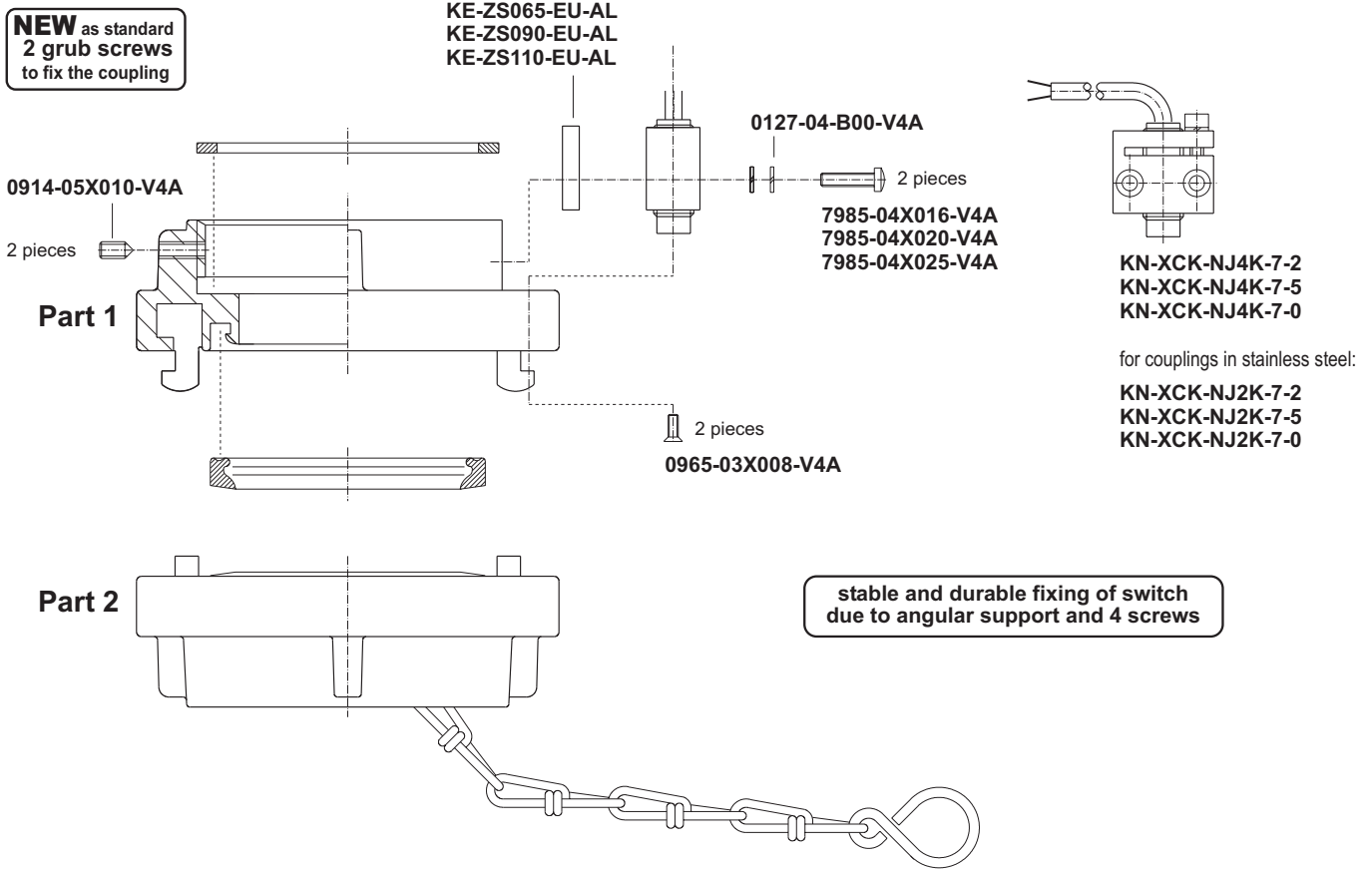
## Wiring connection

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



Pepperl+Fuchs (AL NJ4, VA NJ2)

## Components



Type	NG	G	W	KL	Part 1	NG	G	W	Part 2	NG	W
KN - SZ 052	IG2	AL	2		K - FSZ 052	IG2	AL	E	K - BSZ052 - 00 - AL - M		
KN - SZ 065	IG2	AL	2		K - FSZ 065	IG2	AL	E	K - BSZ065 - 00 - AL - M		
KN - SZ 065	IG2½	AL	2		K - FSZ 065	IG2½	AL	E	K - BSZ065 - 00 - AL - M		
KN - SZ 075	IG2	AL	2		K - FSZ 075	IG2	AL	E	K - BSZ075 - 00 - AL - M		
KN - SZ 075	IG2½	AL	2		K - FSZ 075	IG2½	AL	E	K - BSZ075 - 00 - AL - M		
KN - SZ 075	IG3	AL	2		K - FSZ 075	IG3	AL	E	K - BSZ075 - 00 - AL - M		
KN - SZ 090	IG3	AL	2		K - FSZ 090	IG3	AL	E	K - BSZ090 - 00 - AL - M		
KN - SZ 100	IG4	AL	2		K - FSZ 100	IG4	AL	E	K - BSZ100 - 00 - AL - M		
KN - SZ 110	IG4	AL	2		K - FSZ 110	IG4	AL	E	K - BSZ110 - 00 - AL - M		
KN - SZ 110	IG4½	AL	2		K - FSZ 110	IG4½	AL	E	K - BSZ110 - 00 - AL - M		
KN - SZ 125	IG5	AL	2		K - FSZ 125	IG5	AL	E	K - BSZ125 - 00 - AL - M		
KN - SZ 150	IG6	AL	2		K - FSZ 150	IG6	AL	E	K - BSZ150 - 00 - AL - M		

**Part 1 incl. seal rings**

Seal rings and chains depending on the type and acc. to data sheet KE-TD-11.

**Part 2 incl. seal ring and chain**

**Materials**

AL	=	Aluminium
AV	=	Aluminium/1.4571
VA	=	1.4581
MS	=	Brass

NG = Nominal size  
G = Thread  
W = Material