

## Level measurement

Guided wave radar	<b>MOLOS</b> wave	<b>1</b>
Yo-Yo sensing systems	<b>MOLOS</b> bob	<b>2</b>
Visualization	<b>MOLOS</b> visu	<b>3</b>

## Level indicator

Rotation	<b>MOLOS</b> roto	<b>4</b>
Membrane	<b>MOLOS</b> membran	<b>5</b>
Vibration	<b>MOLOS</b> vibro	<b>6</b>
Microwave barrier	<b>MOLOS</b> barrier	<b>7</b>
Pendulum	<b>MOLOS</b> pendu	<b>8</b>
Coding	<b>MOLOS</b> code	<b>9</b>

## Hose couplings

Limit switch	<b>MOLOS</b> switch	<b>10</b>
Swivelling lever	<b>MOLOS</b> swing	<b>11</b>
Lockable couplings	<b>MOLOS</b> lock	<b>12</b>

## Bulk solids handling

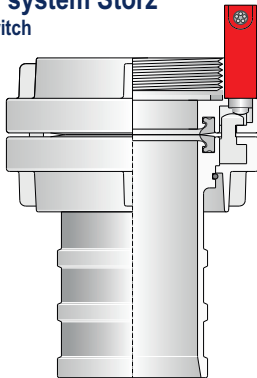
Overload protection	<b>MOLOS</b> safe	<b>13</b>
Silo filling device	<b>MOLOS</b> safe	<b>14</b>
Pressure device	<b>MOLOS</b> pressdec	<b>15</b>
Microwave flow sensor	<b>MOLOS</b> flow	<b>16</b>
Pinch valves	<b>MOLOS</b> valve	<b>17</b>



**Advantages of couplings with limit switch:**

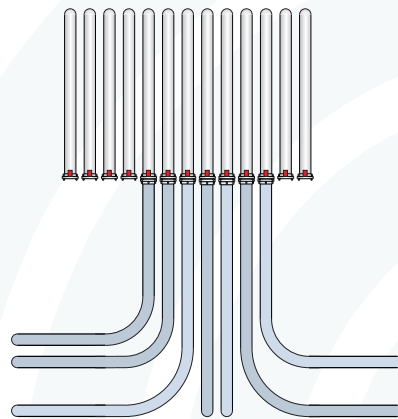
- signal delivery by filling of silos or tanks and at coupling stations
- limit switches for all common coupling systems like system "Storz",
- for tank vehicles or KAMLOK
- switches mechanical KE, inductive KI or acc. NAMUR standards KN
- blind couplings do not operate the limit switch

**Coupling system Storz**  
with limit switch

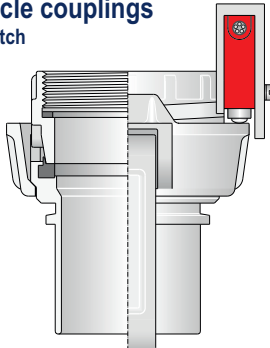


**Coupling station**

Coupling system Storz with limit switch

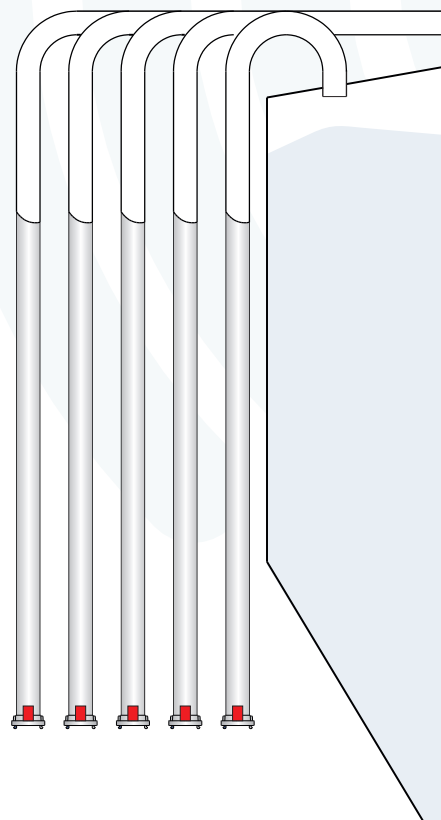


**Tank vehicle couplings**  
with limit switch

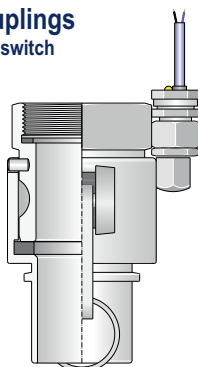


**Coupling station for silo filling**

Coupling system Storz with limit switch



**KAMLOK couplings**  
with NAMUR limit switch



further coupling systems on request  
e.g. Guillemin, Dry-couplings

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## Selection list

### Coupling system Storz: couplings with inside thread ...

... with **mechanical** limit switch, mechanical contact, 1 NO and 1 NC 1.5 A / 250 V AC

Cable length Type	2 m	Cable length Type	5 m	Cable length Type	10 m
<b>KE-SZ052 IG2 AL2 M2</b> .....		<b>KE-SZ052 IG2 AL5 M2</b> .....		<b>KE-SZ052 IG2 AL0 M2</b> .....	
KE-SZ065 IG2 AL2 M2 .....		KE-SZ065 IG2 AL5 M2 .....		KE-SZ065 IG2 AL0 M2 .....	
KE-SZ065 IG2½ AL2 M2 .....		KE-SZ065 IG2½ AL5 M2 .....		KE-SZ065 IG2½ AL0 M2 .....	
KE-SZ075 IG2 AL2 M2 .....		KE-SZ075 IG2 AL5 M2 .....		KE-SZ075 IG2 AL0 M2 .....	
KE-SZ075 IG2½ AL2 M2 .....		KE-SZ075 IG2½ AL5 M2 .....		KE-SZ075 IG2½ AL0 M2 .....	
<b>KE-SZ075 IG3 AL2 M2</b> .....		<b>KE-SZ075 IG3 AL5 M2</b> .....		<b>KE-SZ075 IG3 AL0 M2</b> .....	
KE-SZ090 IG3 AL2 M2 .....		KE-SZ090 IG3 AL5 M2 .....		KE-SZ090 IG3 AL0 M2 .....	
KE-SZ100 IG4 AL2 M2 .....		KE-SZ100 IG4 AL5 M2 .....		KE-SZ100 IG4 AL0 M2 .....	
<b>KE-SZ110 IG4 AL2 M2</b> .....		<b>KE-SZ110 IG4 AL5 M2</b> .....		<b>KE-SZ110 IG4 AL0 M2</b> .....	
KE-SZ110 IG4½ AL2 M2 .....		KE-SZ110 IG4½ AL5 M2 .....		KE-SZ110 IG4½ AL0 M2 .....	
KE-SZ125 IG5 AL2 M2 .....		KE-SZ125 IG5 AL5 M2 .....		KE-SZ125 IG5 AL0 M2 .....	
KE-SZ150 IG6 AL2 M2 .....		KE-SZ150 IG6 AL5 M2 .....		KE-SZ150 IG6 AL0 M2 .....	
<b>Surcharge</b>		<b>Surcharge</b>		<b>Surcharge</b>	
<b>KE2</b> a further limit switch .....		<b>KE2</b> a further limit switch .....		<b>KE2</b> a further limit switch .....	
(max. 2 possible)		(max. 2 possible)		(max. 2 possible)	
<b>ATEX Type of protection</b>		<b>ATEX Type of protection</b>		<b>ATEX Type of protection</b>	
<b>B0</b> II 3D IIIB .....		<b>B0</b> II 3D IIIB .....		<b>B0</b> II 3D IIIB .....	

### Coupling system Storz: couplings with inside thread ...

... with **inductive** limit switch  
24V DC, PNP, normally open

Cable length Type	2 m	Cable length Type	2 m	
<b>KI-SZ052 IG2 AL2 M2</b> .....		<b>KN-SZ052 IG2 AL2 M2</b> .....		<b>Delivery incl. blank cap</b>  <b>Couplings in aluminium alloy</b>  further sizes ..... on demand  further materials ..... on demand   <b>bold</b> = <b>Standard</b> * = at stock  <b>KS</b> lock mounting ..... in the blank cap
KI-SZ065 IG2 AL2 M2 .....		KN-SZ065 IG2 AL2 M2 .....		
KI-SZ065 IG2½ AL2 M2 .....		KN-SZ065 IG2½ AL2 M2 .....		
KI-SZ075 IG2 AL2 M2 .....		KN-SZ075 IG2 AL2 M2 .....		
KI-SZ075 IG2½ AL2 M2 .....		KN-SZ075 IG2½ AL2 M2 .....		
<b>KI-SZ075 IG3 AL2 M2</b> .....		<b>KN-SZ075 IG3 AL2 M2</b> .....		
KI-SZ090 IG3 AL2 M2 .....		KN-SZ090 IG3 AL2 M2 .....		
KI-SZ100 IG4 AL2 M2 .....		KN-SZ100 IG4 AL2 M2 .....		
<b>KI-SZ110 IG4 AL2 M2</b> .....		<b>KN-SZ110 IG4 AL2 M2</b> .....		
KI-SZ110 IG4½ AL2 M2 .....		KN-SZ110 IG4½ AL2 M2 .....		
KI-SZ125 IG5 AL2 M2 .....		KN-SZ125 IG5 AL2 M2 .....		
KI-SZ150 IG6 AL2 M2 .....		KN-SZ150 IG6 AL2 M2 .....		
<b>KI2</b> a further limit switch .....		<b>KN2</b> a further limit switch .....		
(max. 2 possible)		(max. 2 possible)		
<b>5</b> Cable length 5 m .....		<b>5</b> Cable length 5 m .....		
<b>0</b> Cable length 10 m .....		<b>0</b> Cable length 10 m .....		
<b>ATEX Type of protection</b>		II 2G IIC		
<b>B0</b> II 3D IIIB .....		II 1D IIIC		

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## Selection list

### Couplings for tank vehicles EN 14420-6 (DIN 28450) in different sizes: father couplings with ...

... **mechanical** limit switch, mechanical contact, 1 NO and 1 NC 1.5 A / 250 V AC

Cable length Type	2 m	Cable length Type	5 m	Cable length Type	10 m
KE-VK080 IG3 MS2 .....		KE-VK080 IG3 MS5 .....		KE-VK080 IG3 MS0 .....	
KE-VK080 IG3 VA2 .....		KE-VK080 IG3 VA5 .....		KE-VK080 IG3 VA0 .....	
KE-VK100 IG4 MS2 .....		KE-VK100 IG4 MS5 .....		KE-VK100 IG4 MS0 .....	
KE-VK100 IG4 VA2 .....		KE-VK100 IG4 VA5 .....		KE-VK100 IG4 VA0 .....	
<b>KE2</b> a further limit switch .....		<b>KE2</b> a further limit switch .....		<b>KE2</b> a further limit switch .....	
(max. 2 possible)		(max. 2 possible)		(max. 2 possible)	
<b>ATEX Type of protection</b>		<b>ATEX Type of protection</b>		<b>ATEX Type of protection</b>	
B0  II 3D IIIB .....		B0  II 3D IIIB .....		B0  II 3D IIIB .....	

### Couplings for tank vehicles EN 14420-6 (DIN 28450) in different sizes: father couplings with ...

... **inductive** limit switch  
24V DC, PNP, normally open

... **inductive** limit switch  
**NAMUR**, normally closed

... blank cap incl. chain

Cable length Type	2 m	Cable length Type	2 m	Type
KI-VK050 IG2 MS2 .....		KN-VK050 IG2 MS2 .....		K-BMB050-00-AL .....
KI-VK050 IG2 VA2 .....		KN-VK050 IG2 VA2 .....		K-BMB050-00-MS .....
KI-VK080 IG3 MS2 .....		KN-VK080 IG3 MS2 .....		K-BMB080-00-AL .....
KI-VK080 IG3 VA2 .....		KN-VK080 IG3 VA2 .....		K-BMB080-00-MS .....
KI-VK100 IG4 MS2 .....		KN-VK100 IG4 MS2 .....		K-BMB100-00-AL .....
KI-VK100 IG4 VA2 .....		KN-VK100 IG4 VA2 .....		
<b>KI2</b> a further limit switch .....		<b>KN2</b> a further limit switch .....		
(max. 2 possible)		(max. 2 possible)		
<b>5</b> Cable length 5 m .....		<b>5</b> Cable length 5 m .....		
<b>0</b> Cable length 10 m .....		<b>0</b> Cable length 10 m .....		
<b>ATEX Type of protection</b>		II 2G IIC		
B0  II 3D IIIB .....		II 1D IIC		

MS = Brass  
VA = 1.4408 / KI 316  
AL = Aluminium

further sizes ..... on demand

further materials ..... on demand

## Selection list

### Substitutional limit switches for couplings

#### mechanical limit switch

##### Type

KE-XCM-A110-2 .....  
KE-XCM-A110-5 .....  
KE-XCM-A110-0 .....

#### inductive limit switch

##### Type

KI-XBK-BI3U-7-2 .....  
KI-XBK-BI3U-7-5 .....  
KI-XBK-BI3U-7-0 .....  
  
KI-XCM-B356-5-2 .....  
KI-XCM-B356-5-5 .....  
KI-XCM-B356-5-0 .....  
  
KI-XCM-B3019-5-2 .....  
KI-XCM-B3019-5-5 .....  
KI-XCM-B3019-5-0 .....  
  
KI1-XBK-BI3U-7-2 .....  
KI1-XBK-BI3U-7-5 .....  
KI1-XBK-BI3U-7-0 .....  
  
KI2-XBK-BI3U-7-2 .....  
KI2-XBK-BI3U-7-5 .....  
KI2-XBK-BI3U-7-0 .....  
  
KID-XBK-BI3U-7-2 .....  
KID-XBK-BI3U-7-5 .....  
KID-XBK-BI3U-7-0 .....

#### inductive limit switch NAMUR

##### Type

KN-XCK-NJ4K-7-2 .....  
KN-XCK-NJ4K-7-5 .....  
KN-XCK-NJ4K-7-0 .....  
  
KN-XCK-NJ2K-7-2 .....  
KN-XCK-NJ2K-7-5 .....  
KN-XCK-NJ2K-7-0 .....  
  
KN-XCM-NJ4K-5-2 .....  
KN-XCM-NJ4K-5-5 .....  
KN-XCM-NJ4K-5-0 .....

#### Hose coupling wrench

##### for hose coupling system Storz

##### Type

K-XSZ-BC .....  
K-XSZ-ABC .....  
K-XSZ-150-125 .....  
K-XSZ-250-165 .....

#### Pawl

##### for hose coupling system Storz

##### Type

SP ..... on request

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