# PILLOW BLOCKS, BEARINGS, SHOCK ABSORBERS AND SENSORS PACKAGE

#### DESCRIPTION

**NEVER USED, NEVER ASSEMBLED** – This is a package of pillow blocks, spherical roller bearings, adaptor sleeves, seals, shock absorbers, various sensors and other conveyor related miscellaneous components.

## SEE FULL EQUIPMENT LIST INCLUDING QUANTITIES ON THE FOLLOWING PAGES

#### **OEM Summary for Items included in this Package**

- **SKF**Pillow blocks, spherical roller bearings, adaptor sleeves, end covers, locator rings and seals
- Trelleborg
   Noibra SAW 300 60° shock absorbers
- ITECA SOCADEI
   DDR30 Under Speed Sensors
- Schneider XCKMR54-D1H29 Limit Switches
- Kiepe Elektrik
   VG133/6 Misalignment Switches
- VEGA
   VEGAVIB 61 Vibrating Level Switch















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## PILLOW BLOCKS, BEARINGS, SHOCK **ABSORBERS AND SENSORS PACKAGE**

SKF EQUIPMENT LIST SEE APPENDIX "A" FOR SKF DATA SHEETS

SKF EQUIPMENT ACCORDING TO ORGINAL PACKING LIST #PL3087					
TAG No.	QTY	DESCRIPTION	TAG No.	QTY	DESCRIPTION
\20007-00-183	10	Adaptator sleeve - H 3036 / H3036	A2007-00-189	2	Pillow block - SNL 528
A20007-00-187	8	Adaptator sleeve - H 311 / H311	A2007-00-189	4	Pillow block - SNL 528
\20007-00-190	12	Adaptator sleeve - H 3128 / H3128	A2007-00-189	6	Pillow block - SNL 528
\20007-00-193	8	Adaptator sleeve - H 3185 / H315	A2007-00-191	30	Pillow block - SNL 528
\20007-00-198	4	Adaptator sleeve - H 322 / H322	A2007-00-191	37	Pillow block - SNL 528
\20007-00-199	4	Adaptator sleeve - OH 3048 H / H3048-HG	A2007-00-191	24	Pillow block - SNL 528
\2007-00-181	8	End cover - ASNH 511-609 / DKV100	A2007-00-191	42	Pillow Block
\2007-00-181	4	End cover - ASNH 515-612 / DKV130	A2007-00-191	8	Pillow Block
\2007-00-181	8	End cover - ASNH 518-615 / DKV160	A2007-00-191	38	Pillow Block
\2007-00-181	8	End cover - ASNH 522-619 / DKV200	A2007-00-191	38	adaptator sleeve
\2007-00-181	4	End cover - ASNH 528 / DKV250	A2007-00-192	2	end cover
\2007-00-181	4	End cover - ETS 48 / pas d'équivalence	A2007-00-192	2	end cover
\2007-00-181	4	Locating ring - FRB 12,5/130 / FRM130/12,5	A2007-00-195	6	end cover
\2007-00-182	28	Locating ring - FRB 12,5/160 / FRM160/12,5	A2007-00-195	2	end cover
\2007-00-182	10	Locating ring - FRB 12/360 / FRM360/14	A2007-00-195	6	end cover
\2007-00-182	2	Locating ring - FRB 13,5/200 / FRM200/13,5	A2007-00-195	4	end cover
2007-00-182	10	Locating ring - FRB 15/250 / FRM250/15	A2007-00-197	24	end cover
\2007-00-182	10	Locating ring - FRB 17/280 / FRM280/10	A2007-00-197	24	locating ring
\2007-00-182	10	Locating ring - FRB 9,5/100 / FRM100/9,5	A2007-00-197	30	locating ring
\2007-00-183	42	Seal - TSN 511 G / DH511	A2007-00-197	24	locating ring
\2007-00-183	10	Seal - TSN 515 G / DH515	A2007-00-197	24	plummer
\2007-00-183	38	Seal - TSN 518 S / DH518	A2007-00-197	14	seal
\2007-00-183	50	Seal - TSN 522 G / DH522	A2007-00-199	19	seal
\2007-00-183	46	Spherical roller bearing - 22211 EK / 22211-E1-K	A2007-00-199	27	seal
\2007-00-184	2	Adaptator sleeve - H 3036 / H3036	A2007-00-201	8	seal
\2007-00-184	2	Adaptator sleeve - H 3128 / H3128	A2007-00-202	2	seal
\2007-00-184	2	Adaptator sleeve - H 318 / H318	A2007-00-203	14	seal
\2007-00-184b	2	Adaptator sleeve - H 322 / H322	A2007-00-203	14	seal
\2007-00-184b	2	Adaptator sleeve - OH 3044 H / H3044X-HG	A2007-00-203	14	seal
\2007-00-184b	2	Locating ring - FRB 15/250 / FRM250/15	A2007-00-203	14	seal
\2007-00-185	4	Pillow block - SNL 511-609 / SNV100-F-L	A2007-00-203	14	spherical roller bearing
\2007-00-185	4	Pillow block - SNL 515-612 / SNV130-F-L	A2007-00-203	14	spherical roller bearing
\2007-00-186	10	Pillow block - SNL 518-615 / SNV160-F-L	A2007-00-205	16	spherical roller bearing
\2007-00-186	10	Pillow block - SNL 522-619 / SNV200-F-L	A2007-00-205	16	spherical roller bearing
12007-00-186	10	Seal - TSN 528 G / DH528	A2007-00-205	32	spherical roller bearing
\2007-00-186	10	Spherical roller bearing - 22215 EK / 22215-E1-K	A2007-00-205	16	spherical roller bearing
\2007-00-188	2	Spherical roller bearing - 22222 EK / 22222-E1-K	A2007-00-205	16	spherical roller bearing
12007-00-188	2	Spherical r bearing - 22228 CCK/W33 / 22228-E1-K	A2007-00-205	16	Pillow Block
\2007-00-189	8	Spherical r bearing - 23044 CCK/W33 / 23044-E1-K	A2007-00-206	24	Pillow Block
\2007-00-189	4	Spherical r bearing - 23048 CCK/W33 / 23048-E1-K	A2007-00-206	4	Pillow Block

## PILLOW BLOCKS, BEARINGS, SHOCK **ABSORBERS AND SENSORS PACKAGE**

## SENSORS AND SHOCK ABSORBERS EQUIPMENT LIST

SENSORS AND SHOCK ABSORBERS LIST ACCORDING TO ORGINAL PACKING LIST #PL3087					
QTY	MANUFACTURER	MODEL	DESCRIPTION	EQUIP. DATA SHEETS	
15	ITECA SOCADEI	DDR-30	Conveyor Belt Speed Sensor and Alarm	APPENDIX "B"	
59	SCHNEIDER	XCKMR54-D1H29	Limit Switches	APPENDIX "C"	
23	KIEPE ELEKTRIK	VG133/6	Misalignment Sensor and Alarm	APPENDIX "D"	
13	VEGA	VEGAVIB 61	Vibratory Level Sensor and Alarm	APPENDIX "E"	
60	TRELLEBORG	NOVIBRA SAW 300 60°	Shock Absorbers	APPENDIX "F"	



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# APPENDIX A SKF PILLOW BLOCKS, BEARINGS, ETC

DATA SHEETS





## 22211 EK

Popular item SKF Explorer

## Spherical roller bearings

Bearing data

Tolerances,

Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,

Radial internal clearance,

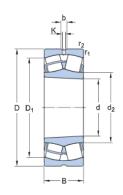
cylindrical bore, tapered bore

Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

## Technical specification

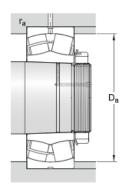


#### **DIMENSIONS**

d	55 mm
D	100 mm
В	25 mm
$d_2$	≈ 65.3 mm
$D_1$	≈ 88 mm
b	6 mm
K	3 mm
r <sub>1,2</sub>	min. 1.5 mm
Tapered bore, taper 1:12	

#### ABUTMENT DIMENSIONS

D <sub>a</sub>	max. 91 mm
r <sub>a</sub>	max. 1.5 mm





#### CALCULATION DATA

Basic dynamic load rating	С	129 kN
Basic static load rating	$C_0$	127 kN
Fatigue load limit	$P_u$	13.7 kN
Reference speed		6300 r/min
Limiting speed		8500 r/min
Calculation factor	е	0.24
Calculation factor	Y <sub>1</sub>	2.8
Calculation factor	Y <sub>2</sub>	4.2
Calculation factor	Y <sub>0</sub>	2.8

#### MASS

Mass bearing	0.81 kg
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#### MOUNTING INFORMATION

Recommended lock nut tightening angle	α	115°
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## 22215 EK

Popular item SKF Explorer

## Spherical roller bearings

#### Bearing data

Tolerances,

Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,

Radial internal clearance,

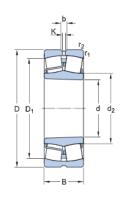
cylindrical bore, tapered bore

#### Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

## Technical specification

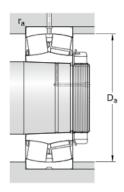


#### **DIMENSIONS**

d	75 mm
D	130 mm
В	31 mm
$d_2$	≈ 87.8 mm
$D_1$	≈ 115 mm
b	6 mm
K	3 mm
r <sub>1,2</sub>	min. 1.5 mm
Tapered bore, taper 1:12	

#### ABUTMENT DIMENSIONS

$D_a$	max. 121 mm
$r_a$	max. 1.5 mm





#### CALCULATION DATA

Basic dynamic load rating	С	217 kN
Basic static load rating	$C_0$	240 kN
Fatigue load limit	$P_{\rm u}$	26.5 kN
Reference speed		4800 r/min
Limiting speed		6300 r/min
Calculation factor	е	0.22
Calculation factor	$Y_1$	3
Calculation factor	Y <sub>2</sub>	4.6
Calculation factor	Y <sub>0</sub>	2.8

#### MASS

Mass bearing	1.65 kg
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#### MOUNTING INFORMATION

Recommended lock nut tightening angle	α	130°
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**5KF**®



## 22222 EK

Popular item SKF Explorer

## Spherical roller bearings

#### Bearing data

Tolerances,

Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,

Radial internal clearance,

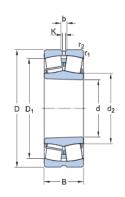
cylindrical bore, tapered bore

#### Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

## Technical specification

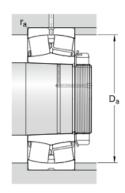


#### **DIMENSIONS**

d	110 mm
D	200 mm
В	53 mm
$d_2$	≈ 130 mm
$D_1$	≈ 178 mm
b	8.3 mm
K	4.5 mm
r <sub>1,2</sub>	min. 2.1 mm
Tapered bore, taper 1:12	

#### ABUTMENT DIMENSIONS

D <sub>a</sub>	max. 188 mm
r <sub>a</sub>	max. 2 mm





#### CALCULATION DATA

Basic dynamic load rating	С	572 kN
Basic static load rating	$C_0$	640 kN
Fatigue load limit	$P_{u}$	63 kN
Reference speed		3000 r/min
Limiting speed		4000 r/min
Calculation factor	е	0.25
Calculation factor	Y <sub>1</sub>	2.7
Calculation factor	Y <sub>2</sub>	4
Calculation factor	Y <sub>0</sub>	2.5

#### MASS

Mass bearing	6.9 kg



## 22228 CCK/W33

Popular item SKF Explorer

## Spherical roller bearings

#### Bearing data

Tolerances,

Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,

Radial internal clearance,

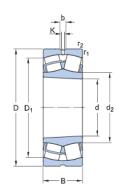
cylindrical bore, tapered bore

#### Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

## Technical specification

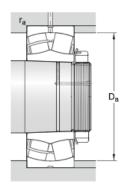


#### **DIMENSIONS**

d	140 mm
D	250 mm
В	68 mm
$d_2$	≈ 166 mm
$D_1$	≈ 216 mm
b	11.1 mm
K	6 mm
r <sub>1,2</sub>	min. 3 mm
Tapered bore, taper 1:12	

#### ABUTMENT DIMENSIONS

D <sub>a</sub>	max. 236 mm
$r_a$	max. 2.5 mm





#### CALCULATION DATA

Basic dynamic load rating	С	743 kN
Basic static load rating	$C_0$	900 kN
Fatigue load limit	$P_{u}$	86.5 kN
Reference speed		2400 r/min
Limiting speed		3200 r/min
Calculation factor	е	0.26
Calculation factor	$Y_1$	2.6
Calculation factor	Y <sub>2</sub>	3.9
Calculation factor	Y <sub>0</sub>	2.5

#### MASS

Mass bearing	14 kg





## 23044 CCK/W33

Popular item SKF Explorer

## Spherical roller bearings

#### Bearing data

Tolerances,

Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,

Radial internal clearance,

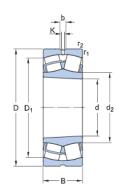
cylindrical bore, tapered bore

#### Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

## Technical specification

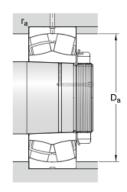


#### **DIMENSIONS**

d	220 mm
D	340 mm
В	90 mm
$d_2$	≈ 250 mm
$D_1$	≈ 306 mm
b	13.9 mm
K	7.5 mm
r <sub>1,2</sub>	min. 3 mm
Tapered bore, taper 1:12	

#### ABUTMENT DIMENSIONS

D <sub>a</sub>	max. 327 r	nm
r <sub>a</sub>	max. 2.5 r	nm





#### CALCULATION DATA

Basic dynamic load rating	С	1261 kN
Basic static load rating	$C_0$	1860 kN
Fatigue load limit	$P_{u}$	163 kN
Reference speed		1600 r/min
Limiting speed		2000 r/min
Calculation factor	е	0.24
Calculation factor	$Y_1$	2.8
Calculation factor	Y <sub>2</sub>	4.2
Calculation factor	$Y_0$	2.8

#### MASS

Mass bearing	28.5 kg
3	3





## 23048 CCK/W33

Popular item SKF Explorer

## Spherical roller bearings

Bearing data

Tolerances,

Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,

Radial internal clearance,

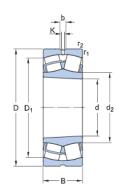
cylindrical bore, tapered bore

Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

## Technical specification

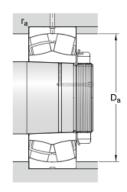


#### **DIMENSIONS**

d	240 mm
D	360 mm
В	92 mm
$d_2$	≈ 271 mm
$D_1$	≈ 326 mm
b	13.9 mm
K	7.5 mm
r <sub>1,2</sub>	min. 3 mm
Tapered bore, taper 1:12	

#### ABUTMENT DIMENSIONS

D <sub>a</sub>	max. 347 mm
r <sub>a</sub>	max. 2.5 mm





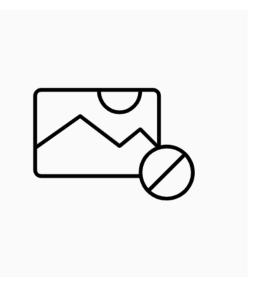
#### CALCULATION DATA

Basic dynamic load rating	С	1340 kN
Basic static load rating	$C_0$	2080 kN
Fatigue load limit	$P_{u}$	176 kN
Reference speed		1500 r/min
Limiting speed		1900 r/min
Calculation factor	е	0.23
Calculation factor	$Y_1$	2.9
Calculation factor	Y <sub>2</sub>	4.4
Calculation factor	Y <sub>0</sub>	2.8

#### MASS

Mass bearing	31.5 kg
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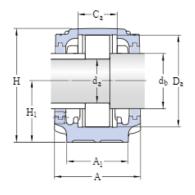
SNL 511-609 + 2211

SE and SNL plummer block housings for bearings with a cylindrical bore, with standard seals

## Technical specification

#### APPROPRIATE PRODUCTS

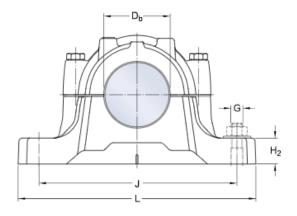
Bearing (basic designation)	2211
Lock nut	KM 11
Lock washer	MB 11
Locating ring	2 x FRB 9.5/100



#### **DIMENSIONS**

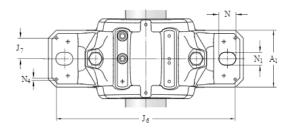
d <sub>a</sub>	55 mm
$d_b$	65 mm
$C_a$	44 mm
$D_a$	100 mm
$D_b$	67 mm
А	95 mm
$A_1$	70 mm
Н	127 mm
$H_1$	70 mm
H <sub>2</sub>	28 mm
J	210 mm
L	255 mm
N	24 mm



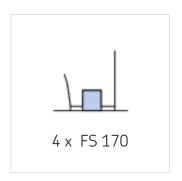


#### **DOWEL PINS**

J <sub>6</sub>	234 mm
J <sub>7</sub>	24.5 mm
$N_4$	max. 8 mm



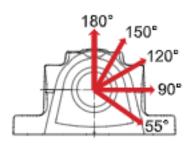
#### APPROPRIATE SEALS AND END COVER



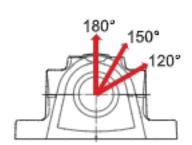
#### BREAKING LOADS, HOUSING

P <sub>0°</sub>	190 kN
P <sub>55°</sub>	275 kN
P <sub>90°</sub>	170 kN





P <sub>120°</sub>	125 kN
P <sub>150°</sub>	115 kN
P <sub>180°</sub>	140 kN
P <sub>a</sub>	90 kN



#### YIELD POINT, CAP BOLTS

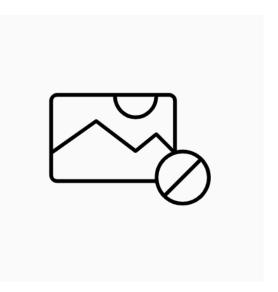
Q <sub>120°</sub>	220 kN
Q <sub>150°</sub>	125 kN
Q <sub>180°</sub>	110 kN

#### MASS

Mass housing 5	5.46 kg
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#### MOUNTING INFORMATION

Cap bolt, size		M 12x60
Cap bolt, rec. tightening torque		80 N·m
Appropriate attachment bolt, size	G	16 mm
Appropriate attachment bolt, rec. tightening torque		200 N·m
Initial grease fill, 20%		55 g
Initial grease fill, 40%		90 g



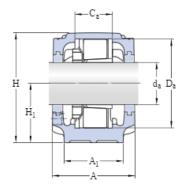
SNL 515-612 + 22215 K + H 315

SE and SNL plummer block housings for bearings on an adapter sleeve, with standard seals

## Technical specification

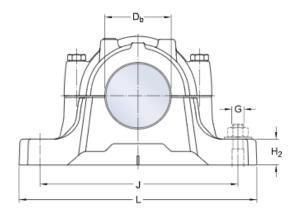
#### APPROPRIATE PRODUCTS

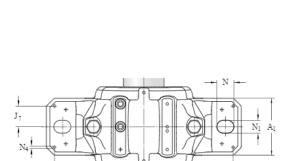
Bearing (basic designation)	22215 K
Adapter sleeve	H 315
Locating ring	2 x FRB 12.5/130



#### **DIMENSIONS**

d <sub>a</sub>	65 mm
$C_{a}$	56 mm
$D_a$	130 mm
$D_b$	87 mm
А	115 mm
$A_1$	80 mm
Н	155 mm
$H_1$	80 mm
H <sub>2</sub>	30 mm
J	230 mm
L	280 mm
N	24 mm
$N_1$	18 mm





#### **DOWEL PINS**

J <sub>6</sub>	257 mm
J <sub>7</sub>	29 mm
$N_4$	max. 8 mm

#### **SEAL DIMENSIONS**

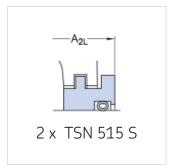
$A_{2L}$	127 mm
$A_{2T}$	177 mm
$d_2$	138 mm

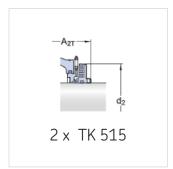
#### APPROPRIATE SEALS AND END COVER





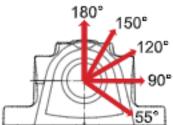


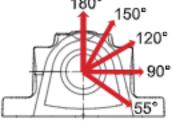










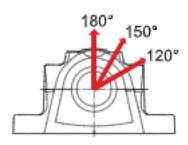


#### BREAKING LOADS, HOUSING

P <sub>0°</sub>	290 kN
P <sub>55°</sub>	410 kN
P <sub>90°</sub>	250 kN
P <sub>120°</sub>	185 kN
P <sub>150°</sub>	160 kN
P <sub>180°</sub>	205 kN
$P_a$	135 kN

#### YIELD POINT, CAP BOLTS

Q <sub>120°</sub>	220 kN
Q <sub>150°</sub>	125 kN
Q <sub>180°</sub>	110 kN



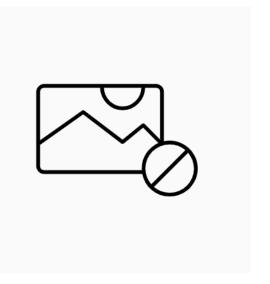
#### MASS

Mass housing	8.57 kg
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#### MOUNTING INFORMATION

Cap bolt, size		M 12x65
Cap bolt, rec. tightening torque		80 N·m
Appropriate attachment bolt, size	G	16 mm
Appropriate attachment bolt, rec. tightening torque		200 N∙m
Initial grease fill, 20%		125 g
Initial grease fill, 40%		210 g





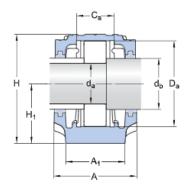
SNL 518-615 + 2218

SE and SNL plummer block housings for bearings with a cylindrical bore, with standard seals

## Technical specification

#### APPROPRIATE PRODUCTS

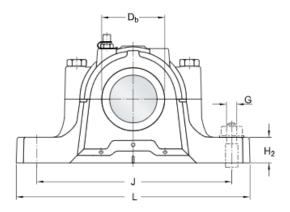
Bearing (basic designation)	2218
Lock nut	KM 18
Lock washer	MB 18
Locating ring	2 x FRB 12.5/160



#### **DIMENSIONS**

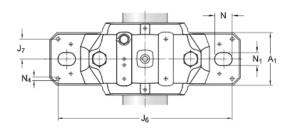
d <sub>a</sub>	90 mm
$d_b$	100 mm
$C_a$	65 mm
$D_{a}$	160 mm
$D_b$	102.5 mm
A	140 mm
$A_1$	100 mm
Н	194 mm
$H_1$	100 mm
H <sub>2</sub>	35 mm
J	290 mm
L	345 mm
N	28 mm



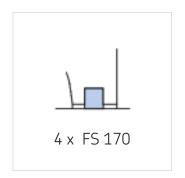


#### **DOWEL PINS**

J <sub>6</sub>	317 mm
J <sub>7</sub>	35 mm
$N_4$	max. 8 mm



#### APPROPRIATE SEALS AND END COVER

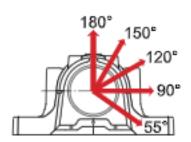




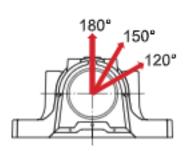
#### BREAKING LOADS, HOUSING

P <sub>0°</sub>	430 kN
P <sub>55°</sub>	550 kN
P <sub>90°</sub>	340 kN





P <sub>120°</sub>	250 kN
P <sub>150°</sub>	215 kN
P <sub>180°</sub>	275 kN
P <sub>a</sub>	180 kN



#### YIELD POINT, CAP BOLTS

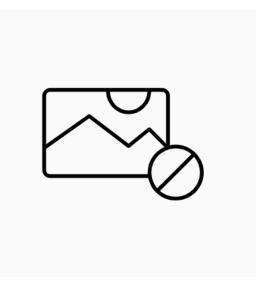
Q <sub>120°</sub>	400 kN
Q <sub>150°</sub>	230 kN
Q <sub>180°</sub>	200 kN

#### MASS

Mass housing	12.5 kg
--------------	---------

#### MOUNTING INFORMATION

Cap bolt, size		M 16x90
Cap bolt, rec. tightening torque		150 N·m
Appropriate attachment bolt, size	G	20 mm
Appropriate attachment bolt, rec. tightening torque		385 N·m
Initial grease fill, 20%		260 g
Initial grease fill, 40%		430 g



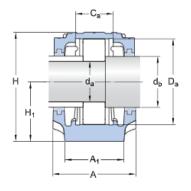
SNL 522-619 + 1222

SE and SNL plummer block housings for bearings with a cylindrical bore, with standard seals

## Technical specification

#### APPROPRIATE PRODUCTS

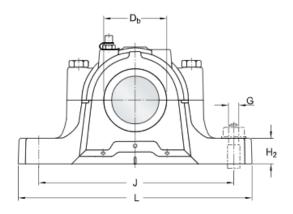
Bearing (basic designation)	1222
Lock nut	KM 22
Lock washer	MB 22
Locating ring	2 x FRB 21/200



#### **DIMENSIONS**

$d_a$	110 mm
$d_b$	125 mm
$C_a$	80 mm
$D_a$	200 mm
$D_b$	147.5 mm
А	175 mm
$A_1$	120 mm
Н	242 mm
$H_1$	125 mm
H <sub>2</sub>	45 mm
J	350 mm
L	410 mm
N	32 mm





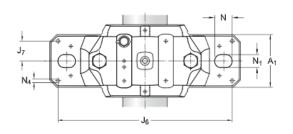
$N_1$	26 mm

#### **DOWEL PINS**

J <sub>6</sub>	378 mm
J <sub>7</sub>	44 mm
$N_4$	max. 8 mm

#### SEAL DIMENSIONS

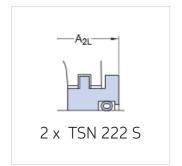
$A_{2L}$	191 mm
A <sub>2T</sub>	263 mm
$d_2$	224 mm

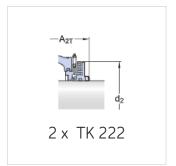


#### APPROPRIATE SEALS AND END COVER



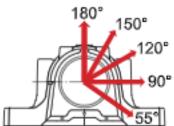


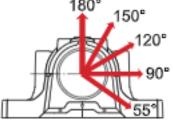










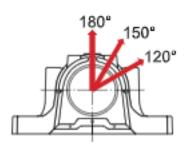


#### BREAKING LOADS, HOUSING

P <sub>0°</sub>	600 kN
P <sub>55°</sub>	680 kN
P <sub>90°</sub>	410 kN
P <sub>120°</sub>	310 kN
P <sub>150°</sub>	275 kN
P <sub>180°</sub>	340 kN
$P_a$	220 kN

#### YIELD POINT, CAP BOLTS

Q <sub>120°</sub>	620 kN
Q <sub>150°</sub>	360 kN
Q <sub>180°</sub>	310 kN



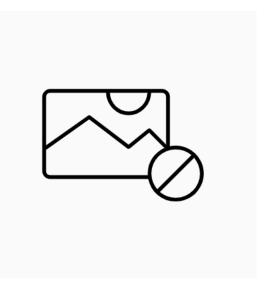
#### MASS

Mass housing		22 k
Mass housing		22 k

#### MOUNTING INFORMATION

Cap bolt, size		M 20x100
Cap bolt, rec. tightening torque		200 N·m
Appropriate attachment bolt, size	G	24 mm
Appropriate attachment bolt, rec. tightening torque		665 N·m
Initial grease fill, 20%		530 g
Initial grease fill, 40%		850 g





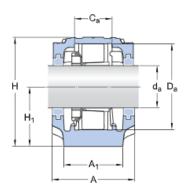
SNL 528 + 23228 K + HE 2328

SE and SNL plummer block housings for bearings on an adapter sleeve, with standard seals

## Technical specification

#### APPROPRIATE PRODUCTS

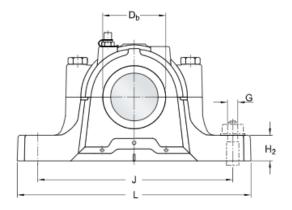
Bearing (basic designation)	23228 K
Adapter sleeve	HE 2328
Locating ring	2 x FRB 5/250



#### **DIMENSIONS**

$d_a$	127 mm
$C_a$	98 mm
$D_a$	250 mm
$D_b$	177.5 mm
A	205 mm
$A_1$	150 mm
Н	302 mm
$H_1$	150 mm
H <sub>2</sub>	50 mm
J	420 mm
L	500 mm
N	42 mm
$N_1$	35 mm



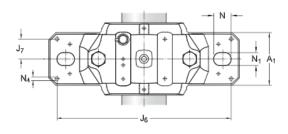


#### **DOWEL PINS**

J <sub>6</sub>	458 mm
J <sub>7</sub>	54 mm
N <sub>4</sub>	max. 12 mm

#### **SEAL DIMENSIONS**

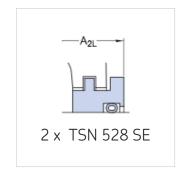
$A_{2L}$	223 mm
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#### APPROPRIATE SEALS AND END COVER





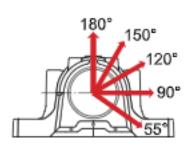




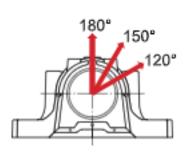
#### BREAKING LOADS, HOUSING

P <sub>0°</sub>	1000 kN
P <sub>55°</sub>	1050 kN
P <sub>90°</sub>	630 kN





P <sub>120°</sub>	470 kN
P <sub>150°</sub>	430 kN
P <sub>180°</sub>	530 kN
P <sub>a</sub>	345 kN



#### YIELD POINT, CAP BOLTS

Q <sub>120°</sub>	900 kN
Q <sub>150°</sub>	520 kN
Q <sub>180°</sub>	450 kN

#### MASS

Mass housing	40 kg
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#### MOUNTING INFORMATION

Cap bolt, size		M 24x130
Cap bolt, rec. tightening torque		350 N⋅m
Appropriate attachment bolt, size	G	30 mm
Appropriate attachment bolt, rec. tightening torque		1310 N⋅m
Initial grease fill, 20%		900 g
Initial grease fill, 40%		1400 g
Eye bolt, size		M 12

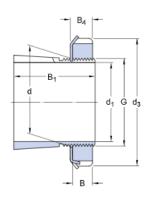


H 311

Popular item

## Adapter sleeves for metric shafts

## Technical specification



#### **DIMENSIONS**

$d_1$	50 mm
d	55 mm
$d_3$	75 mm
B <sub>1</sub>	45 mm
В	11 mm
B <sub>4</sub>	12.5 mm
G	M 55x2

#### MASS

Mass adapter sleeve assembly	0.37 kg

#### **INCLUDED PRODUCTS**

Lock nut	KM 11
Locking device	MB 11

#### **ASSOCIATED PRODUCTS**

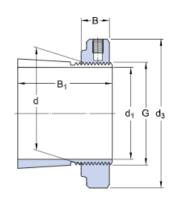


H 318 E

Popular item

## Adapter sleeves for metric shafts

## Technical specification



#### **DIMENSIONS**

$d_1$	80 mm
d	90 mm
$d_3$	120 mm
$B_1$	65 mm
В	19 mm
G	M90x2

#### MASS

Mass adapter sleeve assembly	1.42 kg
------------------------------	---------

#### **INCLUDED PRODUCTS**

Lock nut KM	IFE 18
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#### ASSOCIATED PRODUCTS

Hydraulic nut HMV 18 E

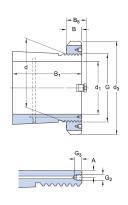


OH 3048 H

Popular item

Adapter sleeves for metric shafts

## Technical specification



#### **DIMENSIONS**

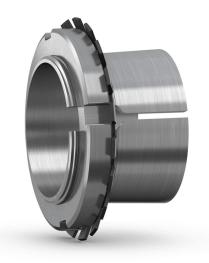
$d_1$	220 mm
d	240 mm
$d_3$	290 mm
B <sub>1</sub>	133 mm
В	34 mm
B <sub>5</sub>	46 mm
G	Tr 240x4
$G_2$	M 6
$G_3$	9 mm
Α	4.2 mm

#### MASS

Mass adapter sleeve assembly 12 kg

#### INCLUDED PRODUCTS

Lock nut	HM 3048
Locking device	MS 3052-48

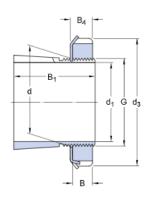


H 318

Popular item

## Adapter sleeves for metric shafts

## Technical specification



#### **DIMENSIONS**

$d_1$	80 mm
d	90 mm
$d_3$	120 mm
$B_1$	65 mm
В	16 mm
B <sub>4</sub>	18 mm
G	M 90x2

#### MASS

Mass adapter	r sleeve assembly	1.43 kg
, lass adapts.	3.3373 4.33572.19	=:

#### **INCLUDED PRODUCTS**

Lock nut	KM 18
Locking device	MB 18

#### **ASSOCIATED PRODUCTS**

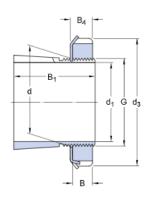


H 322

Popular item

## Adapter sleeves for metric shafts

## Technical specification



#### **DIMENSIONS**

$d_1$	100 mm
d	110 mm
$d_3$	145 mm
B <sub>1</sub>	77 mm
В	19 mm
B <sub>4</sub>	21 mm
G	M 110x2

#### MASS

Mass adapter sleeve assembly	2.26 kg
1 1400 444 101 510010 400011219	=-==9

#### **INCLUDED PRODUCTS**

Lock nut	KM 22
Locking device	MB 22

#### **ASSOCIATED PRODUCTS**

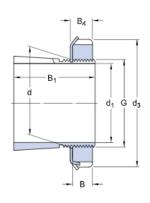


H 3036

Popular item

Adapter sleeves for metric shafts

## Technical specification



## **DIMENSIONS**

$d_1$	160 mm
d	180 mm
$d_3$	210 mm
$B_1$	109 mm
В	27 mm
B <sub>4</sub>	29.5 mm
G	M 180x3

## MASS

	. 7.
Mass adapter sleeve assembly	6./ kg

## **INCLUDED PRODUCTS**

Lock nut	KML 36
Locking device	MBL 36

## **ASSOCIATED PRODUCTS**

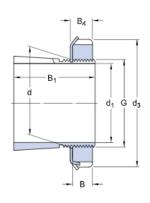


H 3128

Popular item

## Adapter sleeves for metric shafts

## Technical specification



## **DIMENSIONS**

$d_1$	125 mm
d	140 mm
$d_3$	180 mm
$B_1$	97 mm
В	22 mm
B <sub>4</sub>	24 mm
G	M 140x2

## MASS

Mass adapter sleeve assembly	4.5 kg
------------------------------	--------

## **INCLUDED PRODUCTS**

Lock nut	KM 28
Locking device	MB 28

## **ASSOCIATED PRODUCTS**

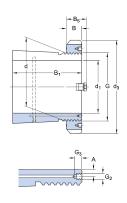


OH 3044 H

Popular item

Adapter sleeves for metric shafts

## Technical specification



## **DIMENSIONS**

$d_1$	200 mm
d	220 mm
$d_3$	260 mm
B <sub>1</sub>	126 mm
В	30 mm
B <sub>5</sub>	41 mm
G	Tr 220x4
$G_2$	M 6
$G_3$	9 mm
Α	6.5 mm

## MASS

Mass adapter sleeve assem	oly 9.	.9 kg
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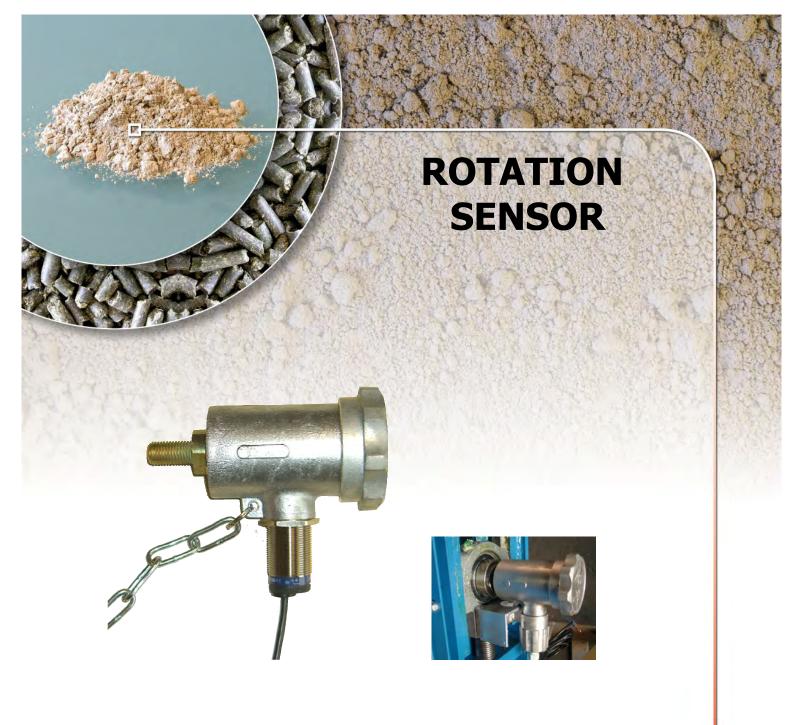
## **INCLUDED PRODUCTS**

Lock nut	HM 3044
Locking device	MS 3044

## APPENDIX B ITECA BELT SPEED SENSOR

DATA SHEETS





## **DDR**

UNDERSPEED OR OVERSPEED DETECTOR FOR ANY ROTATING DEVICE (Conveyor Belt, Bucket Elevator, Screw Conveyor, etc...)

**Complete dust proof solution** 



## **DESCRIPTION**

The Rotation Sensor « DDR » from Iteca Socadei is a heavy duty and dustproof solution. It controls the rotation of any rotating device such as conveyor belt, screw conveyor, bucket elevator.

This solution is the best alternative to the existing solutions composed of a rotating steel target turning in front of a proximity switch. These solutions have several drawbacks: they can be dangerous for operators, proximity switches can be damaged and broken by the rotating steel target, dust can build up onto the proximity switch that becomes blind and gives consequently false information that stops the conveyor.

## The Rotation Sensor « DDR » from Iteca Socadei is Human Safe, Dustproof and heavy duty.

The Rotation Sensor « DDR » is mounted on the shaft so that its speed can be controlled (or underneath the belt by using the option « BT »). The shaft of the Rotation Sensor where a spacer ring is mounted is driven by the machine shaft.. This spacer ring has one or several openings turning in front of a proximity switch. The whole system (shaft, spacer ring and proximity switch) is mounted inside a heavy duty dustproof casing. A chain protects proximity switch's cable during start-up of the conveyor.

Two versions available: DDR 12 for proximity switches Ø 12 and DDR 30 for proximity switches Ø 30.

Two possible mountings:



Standard version directly on the main shaft.



Option « BT » for mounting underneath the conveyor

## **TECHNICAL DATA**

The Rotation Sensor « DDR » is available in two versions:

## DDR Ø 12:

Suitable for proximity switch with a 12 mm diameter that gives pulses. Information can be given to a PLC or to a module « ULSA » supplied as an option (see below).



DESCRIPTION	DATA
Body	Cast aluminium
Protection	IP 55
Mounting	M16 screw and M10 on request
Anti-torque arm	Flexible chain
Rotor assembly	By 2 ball bearings
Connection	1 stuff box CM8
Cable	2 m (standard)
Sensor	Proximity swith
Power supply	Standard: 12 – 48 Vcc
	Upon request: 24 – 240 Vac ou Vcc
Voltage variation	+ 10 to – 20 %
Operating temperature	-25°C to + 60°C
Max. speed of the shaft	500 rpm

Subject to changes without prior notice.

version : 09.02.2016



The module « ULSA » is proposed as an option for the « DDR 12 ». It converts pulses coming from the DDR into adjustable dry contacts for underspeed or overspeed detection.



DESCRIPTION	DATA
Power supply	110 – 240 Vac and 24-48 Vac ± 10 % / 50 Hz – 60
	Hz
Percentage duty cycle	100 %
Output	1 SPDT
Cut-of capacity	250 V / 8 A
Operating temperature	- 20° to + 60°C
Detection range	5 à 5 000 pulses/min. or 10 to 10 000
	pulses/min/250 Hz
Casing protection	IP 40
Terminals	IP 20
Conformity to standards	DIN 46121

## DDR Ø 30:

Suitable for proximity switch with a 30 mm diameter that gives an adjustable dry contact (or pulse for a special proximity switch). It is supplied with or without proximity switch.

DESCRIPTION	DATA
Body	Cast aluminium
Protection	IP 55
Mounting	M16 screw and M10 on request
Anti-torque arm	Flexible chain
Rotor assembly	By 2 ball bearings
Connection	1 stuff box CM8
Cable	2 m (standard)
Power supply	24 to 240 Vac / Vcc (2 wires)
Operating temperature	-25°C to + 75°C
Max. speed of the shaft	500 rpm



Type of proximity switch and number of openings are chosen according to the speed of the shaft. Speed ranges are as follow:

- from 1,5 to 6 rpm.
- from 6 to 150 rpm
- from 150 to 500 rpm

Proximity switch characteristics:

TOXITILLY SWILOTT CHARACTERISTICS.	
Power supply	24 to 240 Vac / Vcc (2 wires)
Protection	IP 67
Operating temperature	-25°C à + 70°C
Cable	2 x 0,5 mm <sup>2</sup>

I T E C A SOCADEI

## **MOUNTING UNDERNEATH THE CONVEYOR**

The option « BT » makes possible installation of the Rotation Sensor « DDR » underneath the belt.

A wheel turns by contact with the belt, a strong spring keeps contact between the wheel and the belt.

This solutions has been used in severe conditions (mining industry, mineral industry, etc.)

This option is available for any version of the Rotation Sensor « DDR » from Iteca Socadei.



## **APPLICATIONS & REFERENCES**

- Applications: conveyor belt, bucket elevator, screw conveyor, lump breakers, rotary valve, etc...
- Mineral Industry: cement, clinker, lime, plaster, calcium carbonate, fly ash, bentonite, sand, quarry, glass...
- Food industry: cereals, pet food, sugar, salt, flour, chocolate...
- Chemical industry: plastic...
- Environment Industry: fly ash, dry mud...
- Wood and paper industry



## APPENDIX C SCHNEIDER LIMIT SWITCHES

DATA SHEETS



## XCKMR54D1H29

limit switch XCKMR - stay put crossed rods lever 6mm - 2x(2 NC) - slow - M20





## Main

Range of product	OsiSense XC
Series name	Special format
Product or component type	Limit switch
Product specific application	For hoisting and mechanical handling applications
Device short name	XCKMR
Body type	Fixed
Head type	Rotary head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Rotary
Type of operator	Stay put crossed rods lever metal (square rod 6 mm, L = 200 mm)
Type of approach	Lateral approach 2 directions
Cable entry	3 entries tapped for M20 x 1.5 cable gland, cable outer diameter: 713 mm
Number of poles	4
Contacts type and composition	2 x (2 NC)
Contacts operation	Slow-break, staggered

## Complementary

Complementary	
Switch actuation	By any moving part
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.52 x 2.5 mm <sup>2</sup>
Contacts insulation form	Zb
Number of steps	5 electrical positions
Contact block per direction (control circuit)	1 per direction
Positive opening	With
Positive opening minimum torque	0.75 N.m
Minimum torque for tripping	0.5 N.m
Minimum actuation speed	6 m/min
Maximum actuation speed	1.5 m/s actuation point on the rod between 65 and 95 mm
Maximum displacement angle	180 ° -180 °
Contact code designation	Q150, DC-13 (Ue = 125 V, le = 0.55 A) conforming to EN/IEC 60947-5-1 appendix A A300, AC-15 (Ue = 240 V, le = 3 A) , Ithe = 10 A conforming to EN/IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	300 V conforming to CSA C22.2 No 14 500 V degree of pollution 3 conforming to EN/IEC 60947-1 300 V conforming to UL 508
Resistance across terminals	<= 25 MOhm conforming to IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1 6 kV conforming to IEC 60664
Short circuit protection	10 A by gG cartridge fuse

Mechanical durability	2000000 cycles
Width	200 mm
Height	118 mm
Depth	59 mm
Product weight	0.55 kg
Terminals description ISO n°1	(11-12)NC (21-22)NC

## Environment

Shock resistance	50 gn conforming to EN/IEC 60068-2-27
Vibration resistance	25 gn (f = 10500 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP66 conforming to EN/IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Class of protection against electric shock	Class I conforming to IEC 60536
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4085 °C
Protective treatment	TC
Product certifications	CCC CE CSA UL
Standards	EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14

## Offer Sustainability

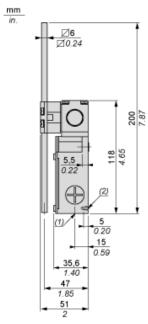
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0936 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations



## Product data sheet **Dimensions Drawings**

## XCKMR54D1H29

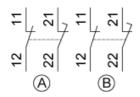
## **Dimensions**



- 3 tapped entries ISO M20x1.5 2 centring holes Ø 3.9  $\pm$  0.2, for cover fixing holes alignment.

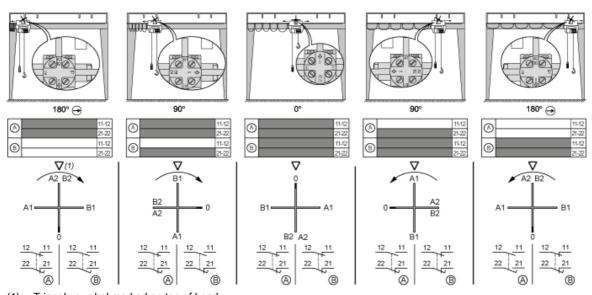
## Wiring Diagram

2 x 2-pole NC+NC Break Before Make, Slow Break (Non Interchangeable Contacts)



## XCKMR54D1H29

## **Functionnal Diagram**



(1) Triangle symbol marked on top of head.

## APPENDIX D KIEPE MISALIGNMENT SENSORS

DATA SHEETS





## **Conveyor Belt Misalignment Switch**

## VG



## **APPLICATION**

Kiepe Belt Misalignment Switches are used in conveyor installations for monitoring the true running of conveyor belts. The switches, when mounted at the running edges of a conveyor belt, will be operated if the belt deviates from it's designed running line by more than a permissable distance. The switches will then stop the conveyor drive, avoiding spillage of material or damage to the plant. The Belt Misalignment Switches can be optionally supplied with a pre-alarm position for an alert signal at slight deviation and a final cut-out and lock.

## PRODUCT DESCRIPTION

The switch enclosure consists of corrosion-resistant aluminium alloy. All external parts are either of stainless steel or have been especially plated. The actuating roller is of polyamide. All VG-types ars fitted with snap acting switches. The actuating head is removable from the main switch body and may be re-fitted in any of four positions. This, together with re-positioning of the switch trip bar allows the actuating roller to operate in any of four directions giving greater mounting versatility. All this will insure extremely safe operation, permitting to use the switch for severe operation and in outdoor installations.

No maintenance will be required. For the Models VG.../5 and 6 the switching point has been set at the manufacturer's plant to approx. 12° from vertical and can be continuously readjusted in the field. The Model VG.../6 switch will latch as the admissible amount of out-of-line running is exceeded. It is unlatched locally by resetting the actuating roller. The VG 133/6 switch is equipped with two snap acting switches. An alert signal will be provided at approx. 12°, the final cut-out and latch will occur at 45°. For unlatching, the actuating roller is reset by hand.

SELECTION TABLE								
Type Ref.	Pre-Alarm not included/included	Latching not included/included	No. of Contacts Switching Point at				Order number	Weight kg/each
			15°		45°			
			NC	NO	NC	NO		
VG 03/5	Χ	Χ	1	1			92.038 143.501	0,75
VG 033/5	Χ	Χ	2	2			92.038 143.511	0,75
VG 03/6	Χ	Χ	1	1			92.038 143.601	0,75
VG 033/6	Χ	Χ	2	2			92.038 143.611	0,75
VG 133/6	Х	Χ	1	1	1	1	92.038 143.615	0,75

## **Spares and Options**

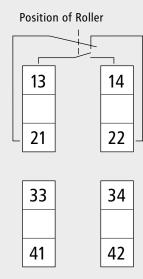
Actuating roller for type VG $\varnothing$ 25 mm	94.037 860.001
Switch element for type VG	215.15.14.10.00
Ventilation duct	580.00.16.01.01

Device complies with	EN 60947-5-1
Enclosure	Aluminium alloy GK-ALSi 12
Finish	2 - Component DD - tile enamel, yellow
Fastening	By means 2 oblong holes for M6 bolts
Cable Entry	3 x M20 x 1,5
Protection	IP 65 according to EN 60529
Rated Insulation Voltage U <sub>i</sub>	AC 380 V / DC 440 V
Earthing	Within Enclosure M5
Admissible Ambient Temperatures 1)	-25°C +70°C
Switching Elements	Snap acting Switches
Number of Contacts	1 NC + 1 NO or 2 NC + 2 NO
Conventional Thermal Current I <sub>th</sub>	10 A
Breaking Capacity I <sub>e</sub> /U <sub>e</sub>	5 A / AC 250 V
Operation per Hour	1500
Connections	Screw clamp terminals for a wire gauge of 2,5 mm <sup>2</sup>
Mechanical Life	3 x 10 <sup>6</sup> Switching Cycles
Type of Operation	Actuating Roller; with or without latch
Actuating Roller	Polyamid 25 mm diameter
Switching Point	At approx. 12° from vertical. With devices designed for pre-alarm, this alarm will be tripped at approx. 12° without latching action, whereas cut-out will occur at 45°, with the device then being latched
Excursion	90° max.
Mounting Position	vertical
Maintenance free Options	Ventilation duct to avoid condensation

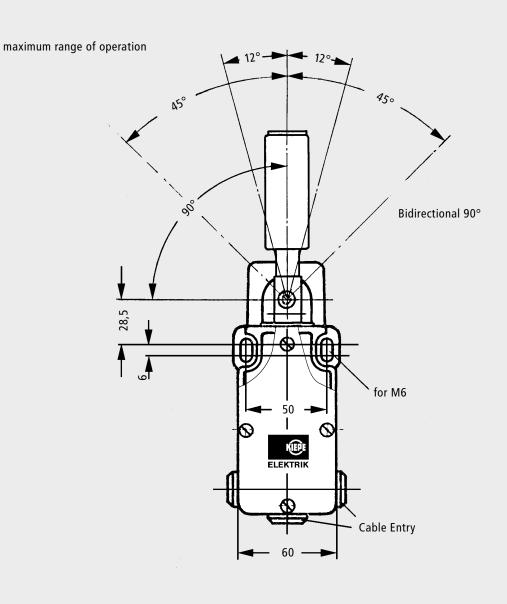
<sup>1)</sup> Deviating ambient temperature upon request

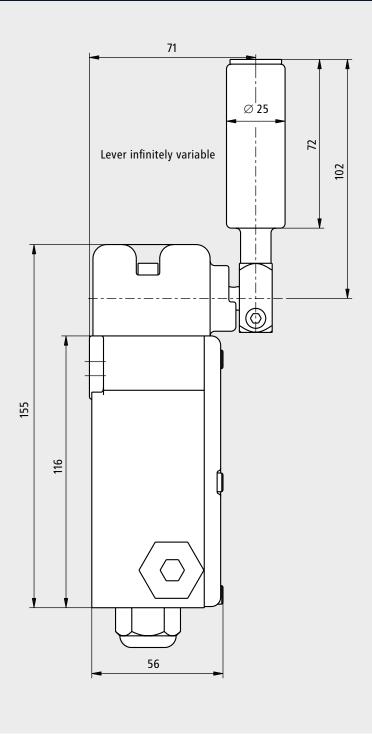
## TECHNICAL DATA

Terminal Markings (maximum configuration)



## DIMENSIONS





 $\label{eq:Subject} \textbf{Subject to change without notice}.$ 

## APPENDIX E VIBRATORY LEVEL SENSORS

DATA SHEETS





## **VEGAVIB 61**

## Relay (DPDT)

## Vibrating level switch for granulated bulk solids



## **Application area**

VEGAVIB 61 is used as a level switch in granular and coarse-grained bulk solids. The VEGAVIB 61 detects reliably and accurately when the min. or max. level is reached. The smooth surface of the vibrating rod, without corners and edges, avoids jamming of the bulk solid and is easy to clean.

## Your benefit

- . Minimum time and cost expenditure due to simple setup without
- · Reliable function due to product-independent switching point
- · Low maintenance costs

## **Function**

The vibrating rod of VEGAVIB 61 is energized by a piezo drive to vibrate at its resonance frequency. If the medium covers the vibrating rod, the amplitude is damped. The electronics detects this change and converts it into a switching command. A reliable function in granulated bulk solids is ensured by the ideal rod design.

### **Technical data**

Process pressure -1 ... +16 bar/-100 ... +1600 kPa

(-14.5 ... +232 psig)

Process temperature -50 ... +250 °C (-58 ... +482 °F)  $> 0.02 \text{ g/cm}^3 (0.0007 \text{ lbs/in}^3)$ Density

Ambient temperature on the housing

-40 ... +80 °C (-40 ... +176 °F)

Storage and transport

temperature

-40 ... +80 °C (-40 ... +176 °F)

Hysteresis

approx. 2 mm (0.08 in) with vertical instal-

Process fitting Threads from G1, 1 NPT, flanges from

DN 32, 11/2", hygienic fittings

Operating voltage 20 ... 253 V AC, 50/60 Hz; 20 ... 72 V DC Power consumption 1 ... 8 VA (AC), approximately 1.5 W (DC) Switching delay When being covered: 0.5 s, when being

uncovered 1 s

SIL qualification Optionally up to SIL2

### **Materials**

The wetted parts of the instrument are made of stainless steel 316L. The supplied process seal is made of Klingersil C-4400. You will find a complete overview of the available materials and seals in the "configurator" on our homepage at  $\underline{www.vega.com/configurator}.$ 

## **Housing versions**

The housings are available in plastic, stainless steel or Aluminium. They are available with protection ratings up to IP 67.

## **Electronics versions**

The instruments are available in different electronics versions. Apart from the versions with transistor output, contactless electronic switch and relay output, a two-wire version for connection to a signal conditioning instrument and a NAMUR version are also available.

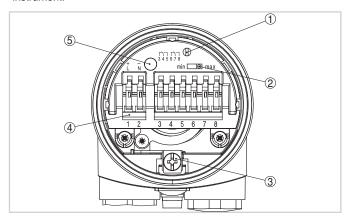
## **Approvals**

The instruments are suitable for use in hazardous areas and are approved, for example, according to ATEX, FM, CSA and IEC. You can find detailed information on the existing approvals in the "configurator" on our homepage at www.vega.com/configurator.



## Operation

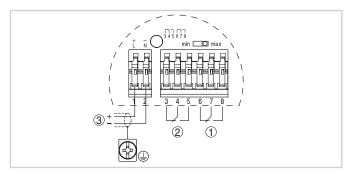
The mode and sensitivity of the level switch can be adjusted on the electronics module. A signal lamp shows the switching status of the instrument.



Electronics and connection compartment - relay output

- 1 Potentiometer for switching point adaptation
- 2 DIL switch for mode adjustment
- 3 Ground terminal
- 4 Connection terminals
- 5 Control lamp

## **Electrical connection**

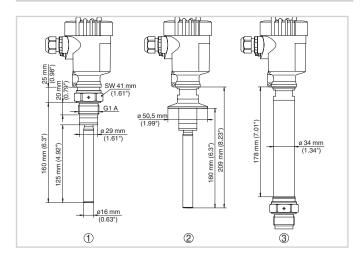


Wiring plan

- 1 Relay output
- 2 Relay output
- 3 Voltage supply

You can find details on electrical connection in the instrument operating instructions on our homepage at <a href="https://www.vega.com/downloads">www.vega.com/downloads</a>.

## **Dimensions**



- Threaded version G1
- 2 Clamp version
- 3 Temperature adapter

## Information

You can find further information on the VEGA product line on our homepage www.vega.com.

In the download section under <a href="www.vega.com/downloads">www.vega.com/downloads</a> you'll find free operating instructions, product information, brochures, approval documents, instrument drawings and much, much more.

## Instrument selection

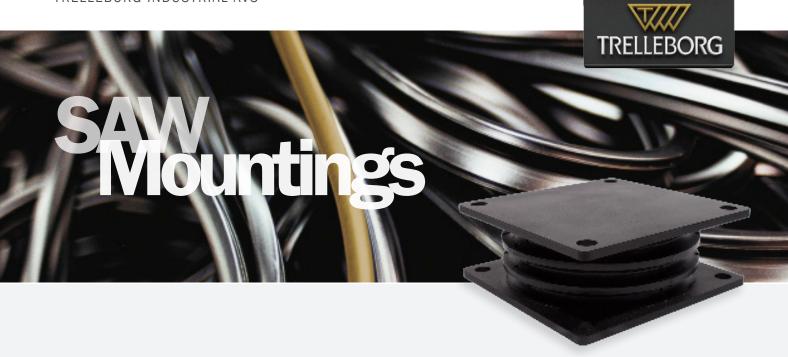
With the "Finder" at <a href="www.vega.com/finder">www.vega.com/finder</a> and "VEGA Tools" you can select the most suitable measuring principle for your application. You can find detailed information on the instrument versions in the "Configurator" at <a href="www.vega.com/configurator">www.vega.com/configurator</a> and "VEGA Tools".

## Contact

You can find the VEGA agency serving your area on our homepage www.vega.com.

# APPENDIX E TRELLEBORG SHOCK ABSORBERS DATA SHEETS





## **SAW Mountings**

Novibra® elements type SAW are heavy duty mountings for static and shock loads in compression. The mounts provide high isolation in the horizontal shear direction.

Novibra® type SAW® mountings consist of a cylindrical shaped rubber section with integrally bonded interleaf metal plates, bonded between two square heavy duty outer metal fixing plates. Designed for large compressive forces with minimum deformation, while providing low shear stiffness rates.

The combination of a stable low installation height, high compressive strength and low shear stiffness makes Novibra® type SAW® a versatile high performance anti-vibration mounting. The 4 clearance holes in each fixing plate allow easy installation.

By connecting 2 SAW®- elements in a series, i.e. one on top of the other, an increased isolation efficiency is achieved in both shear and compression planes. Where larger deflections are required in the vertical plane. Novibra® type SAW® mountings are mounted at a calculated angle configuration to provide the optimum spring rate.

Grinders

Screens

Vibratory rollers

## Typical applications include:

- Crushers
- Edge Runners
- Mills
- Hoppers and feeders

## **About Trelleborg Industrial AVS**

Over 100 years of experience as Metalastik and Novibra, today Trelleborg Industrial AVS make improvements people can physically feel. From smoother travel to quieter, more efficient machines, we make life feel better. With quality, testing and compliance built in, we're in it for the long haul, ensuring your solution still works, over an extended and often arduous life-cycle.

With three state-of-the-art manufacturing plants across the globe, our experience in rubber to metal bonding enhances several industries, including off-highway vehicles, rail and mass transit, marine and energy and general industry.

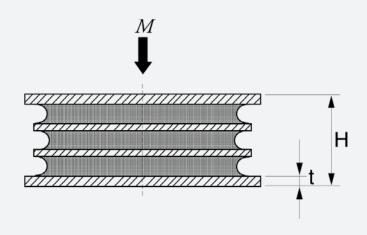
We offer an end-to-end service, to take you from concept through design, manufacturing and testing to delivery. This reduces the complexity of supply, helping you cut costs, mitigate risk and receive on time, on budget delivery.

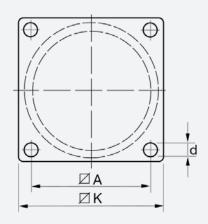
Trelleborg IAVS is part of Trelleborg Group, which employs 15,000 people in over 40 countries. Whatever your challenge, whatever your role and wherever you are, we are nearby to offer expert knowledge and quality solutions.



## **SAW Mountings**

## **Technical Drawing**





## **Product Data**

DRAWING No. PART No.		TYPE	DIMENSIONS (mm)					MAX LOAD	WEIGHT (kg)
				k	Н	d	t	M (kg)	
17-4058	10-00141-01	SAW 125 40 IRH	118	148	52	13.5	5	2250	2.6
17-4058	10-00142-01	SAW 125 60 IRH	118	148	52	13.5	5	4500	2.6
17-4059	10-00143-01	SAW 150 40 IRH	136	166	63	13.5	6	3750	4.1
17-4059	10-00144-01	SAW 150 60 IRH	136	166	63	13.5	6	7500	4.1
17-4060	10-00075-01	SAW 200 40 IRH	184	220	82	17	8	6000	9.2
17-4060	10-00076-01	SAW 200 60 IRH	184	220	82	17	8	12000	9.2
17-4061	10-00077-01	SAW 300 40 IRH	270	310	120	22	10	15000	27
17-4061	10-00078-01	SAW 300 60 IRH	270	310	120	22	10	30000	<mark>27</mark>



WWW.TRELLEBORG.COM/ANTI-VIBRATION-SOLUTIONS

For further information visit our website or e-mail industrial avs@trelleborg.com

The content in this datasheet was correct at the time of printing, but is subject to change without notice.