



APOS

Positioning systems for VAHLE conductor lines

SYSTEMS IN MOTION





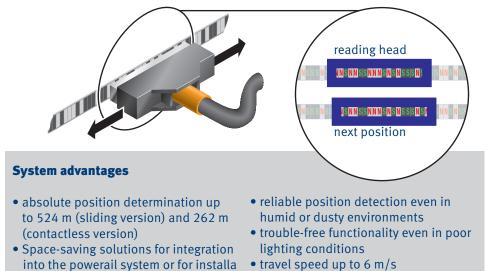


APOS positioning systems with VAHLE conductor lines

were developed for automated handling systems in material flow technology. The control system can constantly query the absolute position of the mobile consumer.

Operating principle

Vahle-APOS consists of a code strip with a magnetic length coding as a reading head with integrated logic, which transmits the position to the control system via the interface. The intelligent reading head determines the position from the code strip and evaluates it for downstream control systems for processing.



- travel speed up to 6 m/s
 - the system enables the combination of horizontally and vertically combined handling equipment

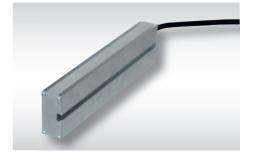
Overview of APOS components

Code strip



The code strip comes factory assembled with a cross-magnetised specified code and is thus given a digital length coding.

LB-15 reading head



Contactless scanning for powerail systems KBH and MKL.

Code rail

• retrofittable

failure



tion in parallel to the runway

• absolute position immediately availa-

ble when switching on or after a power

The code rail consists of the support profile (1), the code strip (2) and the sliding strip (3). The sliding strip serves for the mounting and sliding guidance of the APOS LKG-17 reading head.

Reading head carrier LW



Guide carrier for the mounting of the LB contactless reading head for KBH and MKL conductor line systems.

LKG-17 reading head



Sliding scanner for powerail systems U 10, VKS 10 and FARA 100

SU interface module



Logging of APOS to CANopen, Profibus DP and others.

Intelligent positioning solutions with VAHLE and APOS perfectly integrated and retrofittable

VKS 10, APOS in 10-pole



VKS 10, APOS in 11-pole







MKL



U 10



FABA 100



Type/Interface	Name	U 10	FABA 100	KBH	MKL	VKS	10	Order-no.
						10-pole	11-pole	
LKG 17 - RS 485	Sliding reading head	•	•					2823156
LKG 17 - RS 485 Steel - 2	Sliding reading head	•	•					2823157
LKG 17 - SSI Gray Code	Sliding reading head	•	•					2823158
LLG 17 - RS 485	Sliding reading head		•			•	•	2823210
LLG 17 - RS 485 Steel - 2	Sliding reading head		•			•	•	2823211
LLG 17 - SSI Gray Code	Sliding reading head		•			•	•	2823212
LB 15 - RS 485	Contactless reading head			•	•			2823159
LB 15 - RS 485 Steel - 2	Contactless reading head			•	•			2823251
LB 15 - SSI Gray Code	Contactless reading head			•	•			2823252
LB 15 - SSI Binär Code	Contactless reading head			•	•			2823556
LB 15 - CAN	Contactless reading head			•	•			2823253
SU - Profibus for LB	Interface module			0	0			2823263
SU - Profibus f. LKG a. LLG	Interface module	0	0			0	0	2823154
CB 75	Code band 7.5 mm			•	•			2823254
CB 80	Code band 8 mm	•	•			•	•	2823255
FP 20	Fixing profile				•			2823280
FP 25	Fixing profile			•				2823257
GB 80	Sliding rail 8 mm	•	•			•	•	2823446
TPA - U 10 - 6	Support profile	•						2823258
TPA - FABA 100 - 4	Support profile		•					2806571
TPA - VKS 10/10 - 6	Support profile					•		2823259
TPA - VKS 10/11 - 6	Support profile						•	2823265
LWK	Reading head carrier				•			2823445
LWM	Reading head carrier					•		2823261
ZAK	Accessories				•			2823281
ZAM	Accessories					•		2823282

VAHLE

Scope of delivery and services Catalogue no.

1	Open powerails						
	Open powerails	1a					
2	Insulated powerails						
	U10	2a					
	FABA 100	2b					
	U15, U25, U35	2c					
	U20, U30, U40	2d					
3	Compact conductor lines						
	VKS 10	3a					
	VKS - VKL	3b					
4	Powerail Enclosed Conductor Systems						
	KBSL - KSL	4a					
	КВН	4b					
	MKLD - MKLF - MKLS	4c					
	LSV - LSVG	4d					
5	Contactless power system (CPS®)						
	Contactless power system (CPS®)	5a					
6	Data transfer						
	VAHLE Powercom [®]	6a					
	Slotted Microwave Guide (SMG)	6b					
7	Position Encoding Systems						
	VAHLE APOS®	7a					
8 Cable carriers and cables							
	Cable carriers for 🗆 tracks	8a					
	Cable carriers for flat cables on ${\tt I}$ tracks	8b					
Cable carriers for round flat cables on I tracks							
	Cable carriers for 💠 tracks	8d					
	Cables	8e					
9	Reels						
	Spring Operated Cable Reels	9a					
	Motor Powered Cable Reels	9b					
10	Other						
	Battery charging systems	10a					
	Heavy enclosed conductor systems	10b					
	Tender	10c					
	Contact wire	10d					
As	semblies / Commissioning						
Sp	Spare parts / Maintenance service						
	DQS certified in accordance with I 9001:2000 OHSAS 18001 (Reg. no. 003140 C						



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