



APOS

Positioning systems for VAHLE conductor lines

SYSTEMS IN MOTION





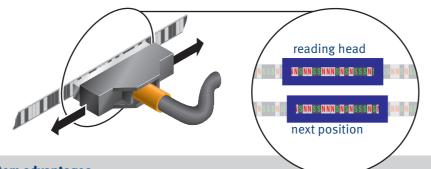


APOS positioning systems with VAHLE conductor lines

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.



System advantages

- 524 m (sliding version)
- into the powerail system or for installa tion in parallel to the runway
- retrofittable for U 10, FABA 100 and VKS 10
- absolute position immediately available when switching on or after a power failure
- absolute position determination up to reliable position detection even in humid or dusty environments
- Space-saving solutions for integration trouble-free functionality even in poor lighting conditions
 - travel speed up to 6 m/s
 - the system enables the combination of horizontally and vertically combined handling equipment

Intelligent positioning solutions with VAHLE and APOS perfectly integrated and retrofittable

KBH

VKS 10, APOS in 10-pole



VKS 10, APOS in 11-pole



FABA 100





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.

Code rail



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.

LKG-17 reading head



Sliding scanner for powerail systems U 10, VKS 10 and FABA 100.

LB-15 reading head



Contactless scanning for powerail systems KBH and MKL.

Reading head carrier LW



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



Logging of APOS to CANopen, Profibus DP and

Type/Interface	Name	U 10	FABA 100	KBH	MKL	VKS 10 10-pole 11-pole		Order-no.
			100					
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 - CAN	Contactless reading head			•	•			2823253
SU - CAN	Interface module	0	0			0	0	2823262
SU - Profibus for LB	Interface module			0	0			2823263
SU - Profibus f. LKG a. LLG	Interface module	0	0			0	0	2823154
SU - Interbus	Interface module	0	0			0	0	2823264
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

Scope of delivery and services Catalogue no.

		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	• • • • • • • • • • • • • • • • • • • •	
	VAHLE APOS®	7a
8	Cable carriers and cables	
	Cable carriers for □ tracks	8a
	Cable carriers for flat cables on I tracks	8b
	Cable carriers for round flat cables on I tracks	8c
	Cable carriers for ♦ tracks	8d
	Cables	8e
9	Reels	0.
	Spring Operated Cable Reels Motor Powered Cable Reels	9a
40		9b
10	Other	100
	Battery charging systems Heavy enclosed conductor systems	10a 10b
	Tender	10b 10c
	Contact wire	10d
Δα	ssemblies / Commissioning	Tou
	pare parts / Maintenance service	
3	one parts / maintenante service	



