

Installation Kit for frequency-control lifts WDGAK58E with end hollow shaft encoder



The following installation kits are available for fitting the encoder to a frequency controlled lift. Every installation kit consists:
 1 x Encoder, 1 x with 15 m ready-made shielded cable, 5 x shaft adapter

Mechanical Data

Housing
 - Flange: Aluminium
 - Cap: Aluminium, powder coated
 - Torque Support:
 1. Spring plate Incl. 1 spring plate WDGDS10001
 Compensation: axial: ±0.8 mm
 radial: ±0.2 mm
 Max. operating speed: 6000 rpm

Hollow bore (blind)

- Material: stainless steel
 - Diameter: 10
 - Permitted load on shaft end: max. 80 N radial
 max. 60 N axial
 - Starting torque: approx. 1.6 Ncm at ambient temperature
 Attachment: permanently attached clamping ring

Bearings

- Type: 2 precision ball bearings
 - Service life: 1x 10⁹ revs. at 100 % shaft load
 1x 10¹⁰ revs. at 40 % shaft load
 1x 10¹¹ revs. at 20 % shaft load
 Weight: approx. 220 g

Connections: SH8: radial connector, 8 pin
 Protection rating: IP65
 (EN 60529)
 Operating temperature: -20 °C up to +80 °C
 Storage temperature: -30 °C up to +80 °C

Machinery Directive: basic data safety integrity level

MTTF_r: 200 a
 Mission time (T_m): 25 a
 Nominale service life (L_{10h}): 1x 10¹¹ revs. at 6000 rpm and
 20 % rated shaft load
 Diagnostic coverage (DC): 0 %

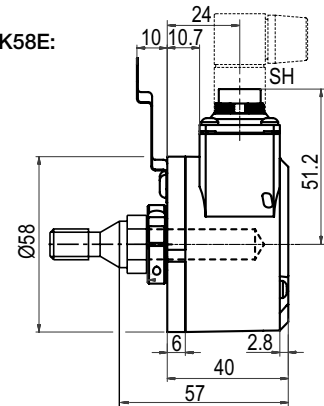
Encoder-Order No.: WDG158E-10-YYYY-ABN-H24-SH8
 - YYYY: with 1024, 2048, 4096 PPR
 - 3 channels, A, B and zero marker pulse N
 - H24: 10 VDC up to 30 VDC HTL Power supply
 - SH8: radial connector, 8 pin
 WDG158E-10-YYYY-ABN-R05-SH8
 - YYYY: with 1024, 2048, 4096 PPR
 - 6 channels, A, B, zero marker pulse N + Inv.
 - 5 VDC TTL Power supply with inv. output
 - SH8: radial connector, 8 pin
 WDG158E-10-YYYY-AB-SIN-SH8
 - YYYY: with 1024, 2048 PPR
 - 4 channels, A, B (Sin/Cos)
 - 4,75 VDC up to 5 VDC, Power supply,
 1 Vpp Sin/Cos
 - SH8: radial connector, 8 pin

YYYY: Please specify required PPR

- Easy installation on all motor shafts
- Flexible attachment possibilities
- Space-saving
- TTL, HTL, Sin/cos output
- Threads: M8, M10, M12, M16, M20

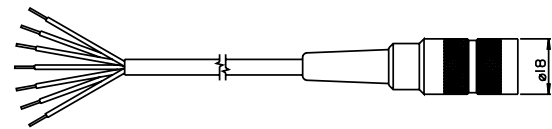
www.wachendorff-automation.com/wdgak58e

Installation Kit WDGAK58E:



Cable:

The cable is 15 m in length and is shielded, however the shield is not connected to the connector housing at TTL/HTL. With a mated connector, the encoder meets protection class IP40.

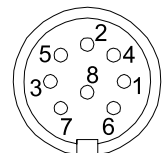


The cable has a connection as follows:

Function	Colour (HTL/TTL)	Color (Sine)
Positive	brown	brown
Negative	white	white
A	green	green
A inv.	red	yellow
B	yellow	gray
B inv.	black	rosa
N	gray	-
N inv.	violet	-
Shield:	cable braiding	cable braiding
Order No:	KD84015	KD840SIN15

Pin identification SH8:

Function	PIN (HTL)	PIN (TTL)	PIN (Sine)
Positive	2	2	2
Negative	1	1	1
A	3	3	3
A inv.	-	6	6
B	4	4	4
B inv.	-	7	7
N	5	5	-
N inv.	-	8	-



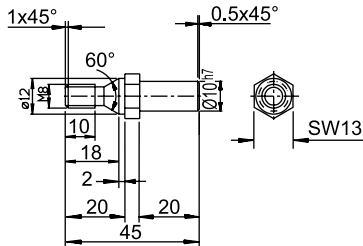
The view of the soldered side of the connector connector corresponds to the view of the pin arrangement on the encoder.

Shaft adapters



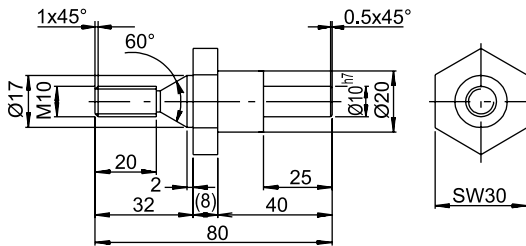
Shaft adapters:

The shaft adapters are screwed into an appropriate thread on the lift.



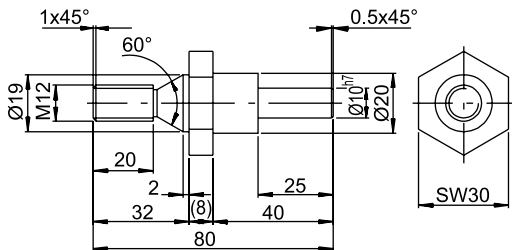
Shaft adapter M8

Order No.: WDGWA10M08



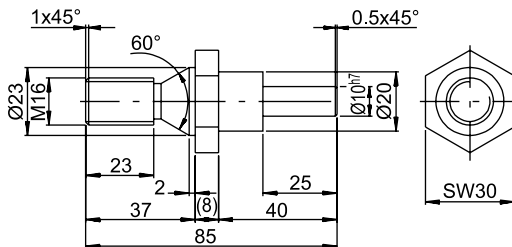
Shaft adapter M10

Order No.: WDGWA10M10



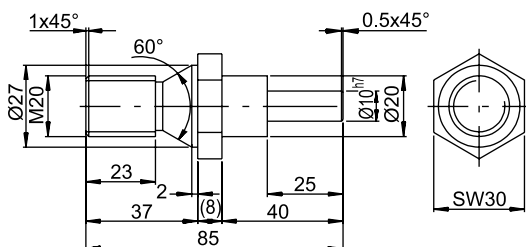
Shaft adapter M12

Order No.: WDGWA10M12



Shaft adapter M16

Order No.: WDGWA10M16



Shaft adapter M20

Order No.: WDGWA10M20

Ordering information installation kit WDGAK58B:

Description:	Order No.:
Installation kit 10-30 VDC HTL comprising: <ul style="list-style-type: none"> - WDG158E-10-YYYY-ABN-H24-SH8 - YYYY: with 1024, 2048, 4096 PPR - 3 channels, A, B, N - H24: 10 - 30 VDC power supply - SH8: radial connector, 8 pin - KD84015: 15 m ready-made cable - Shaft adapter: 08, 10, 12, 16, 20 	WDGAK-58E-YYYY-H24
Installation kit 4,75 - 5VDC, TTL, RS422 comprising: <ul style="list-style-type: none"> - WDG158E-10-YYYY-ABN-R05-SH8 - YYYY: with 1024, 2048, 4096 PPR - 6 channels, A, B, N, A, B, N - R05: 4,75 - 5 VDC TTL power supply with inv. output circuit - SH8: radial connector, 8 pin - KD84015: 15 m ready-made cable - Shaft adapter: 08, 10, 12, 16, 20 	WDGAK-58E-YYYY-R05
Installation kit 4,75 - 5VDC, 1Vpp Sin/Cos comprising: <ul style="list-style-type: none"> - WDG158E-10-YYYY-AB-SIN-SH8 - YYYY: with 1024, 2048 PPR - 4 channels, A, B, A, B - SIN: 4,75 - 5 VDC Sine power supply 1 Vpp Sin/Cos - SH8: radial connector, 8 pin - KD840SIN15: 15 m ready-made cable - Shaft adapter: 08, 10, 12, 16, 20 	WDGAK-58E-YYYY-SIN