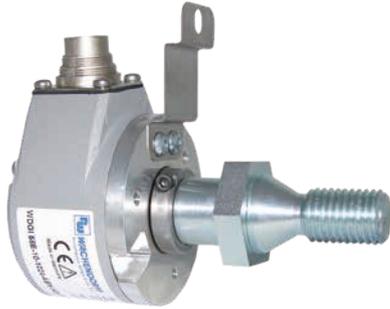


Installation Kit for frequency-control lifts WDGAS58E with end hollow shaft encoder



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, 1 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 10 ⁹ revs. at 100 % shaft load 1x 10 ¹⁰ revs. at 40 % shaft load 1x 10 ¹¹ revs. at 20 % shaft load

Weight:

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 _a :	200 a
Mission time (T _M):	25 a
Nominale service life (L _{10h}):	1x 10 ¹¹ revs. at 6000 rpm and 20 % rated shaft load
Diagnostic coverage (DC):	0 %

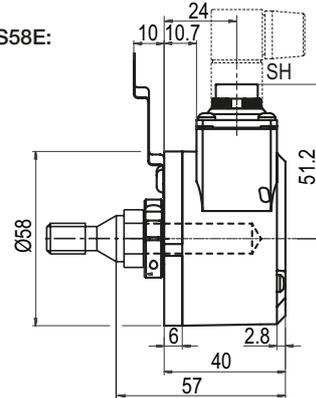
Encoder-Order No.:	WDGI58E-YYYY-ABN-H24-SH8 - YYYY: with 1024, 2048, 4096 PPR - 3 channels, A, B and zero marker pulse N - H24: 10 VDC up to 30 VDC HTL Power supply - SH8: radial connector, 8 pin
	WDGI58E-YYYY-ABN-R05-SH8 - YYYY: with 1024, 2048, 4096 PPR - 6 channels, A, B, zero marker pulse N + Inv. - 5 VDC TTL Power supply with inv. output - SH8: radial connector, 8 pin

YYYY: Please specify required. PPR: 1024, 2048 oder 4096

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

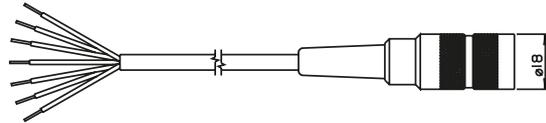
www.wachendorff-automation.com/wdgas58e

Installation Kit WDGAS58E:



Cable:

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



The cable has a connection as follows:

Function	Colour
Positive	brown
Negative	white
A	green
A inv.	red
B	yellow
B inv.	black
N	gray
N inv.	violet
Shield:	cable braiding

Order No.: KD84015

Pin identification SH8

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



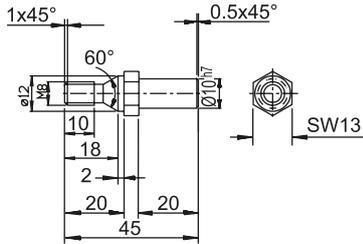
The view of the soldered side of the connector connector corresponds to the view of the pin arrangement on the encoder.

Shaft adapters



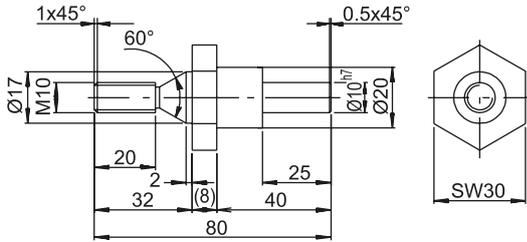
Shaft adapters:

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



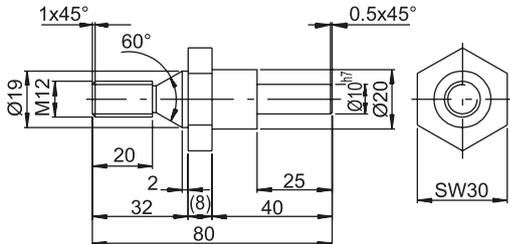
Shaft adapter M8

Order No.: WDGWA10M08



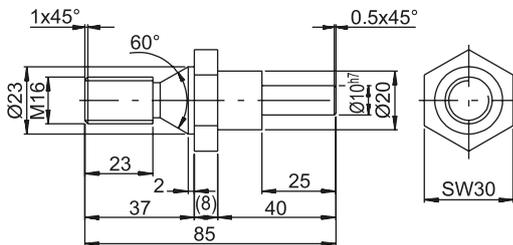
Shaft adapter M10

Order No.: WDGWA10M10



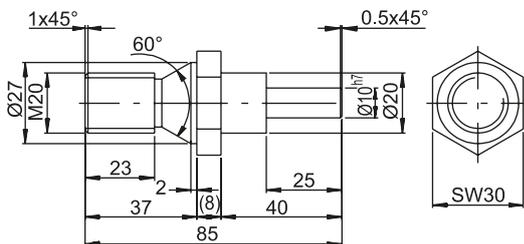
Shaft adapter M12

Order No.: WDGWA10M12



Shaft adapter M16

Order No.: WDGWA10M16



Shaft adapter M20

Order No.: WDGWA10M20

Note:

XX: Please insert the code corresponding to the required shaft adapter:

- Shaft adapter 10/M8: 08
- Shaft adapter 10/M10: 10
- Shaft adapter 10/M12: 12
- Shaft adapter 10/M16: 16
- Shaft adapter 10/M20: 20

YYYY: Please specify required PPR: 1024, 2048 or 4096

Ordering information WDGAS58E:

Description:	Order No.:
Installation Kit 10-30 VDC HTL comprising: - 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 shielded cable - XX: Shaft adapter: 08, 10, 12, 16 or 20	WDGAS58EYYYYH24XX
Installation Kit 5 VDC TTL, RS422 comprising: - WDG158E-10-YYYY-ABN-R05-SH8 - YYYY: with 1024, 2048, 4096 PPR - 6 channels, A, B, N, A, B, N - R05: 5 VDC TTL power supply with inv. output circuit - SH8: radial connector, 8 pin - KD84015: 15 m ready-made shielded cable - XX: Shaft adapter: 08, 10, 12, 16 or 20	WDGAS58EYYYYR05XX

Customs tariff number: 90318020
Country of origin: Germany

Montageanleitung Hohlwellengeber WDG/WDGI

Assembly instructions hollowshaft encoder, Notice de montage codeur rotatif à arbre creux, Instrucciones de montaje encoder ad albero cavo, istruzioni di montaggio encoders de eje hueco.

Montage nur qualifiziertes Personal, Assembly only qualified personnel, Montage par qualifié personnel, Montaggio solo personale qualificato, Montaje solamente personal cualificado.
Sicherheitsmassnahmen/Safety instructions: Einsatz nur in Industrieumgebung und NICHT im sicherheitsrelevanten Bereich. Only for use in industrial environments and NOT for safety-relevant areas. Utilisation uniquement dans un environnement industriel et PAS dans un domaine lié à la sécurité. Utilicelo sólo en entornos industriales y NO en áreas relevantes para la seguridad. Utilizzare solo in ambienti industriali e NON in aree riguardanti la sicurezza.

Power supply: Class 2 only

DIN EN 100015-1

	WDGI (Stecker , connector, connecteur, conector, spina): -40 °C ... +85 °C (-40 °F ... +185 °F)		WDG* + WDGI (Kabel , cable, Câble, Cable, cavo)**: -20 °C ... +80 °C (-4 °F ... +176 °F) Option: * -40 °C ... +80 °C (-40 °F ... +176 °F) ** -40 °C ... +85 °C (-40 °F ... +185 °F) 1Vss: -10 °C ... +70 °C (14 °F ... +158 °F)		-30 °C ... +80 °C (-22 °F ... +176 °F)
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Kabel ø, cable, Câble, Cable, cavo	R1	R2	Temperatur
≤ 7 mm	31,5 mm	94,5 mm	T > -20 °C (-4 °F)
> 7 mm	41,5 mm	124,5 mm	T > -20 °C (-4 °F)
≤ 7 mm	46,5 mm	139,5 mm	T > -40 °C (-40 °F)
> 7 mm	62,3 mm	186,9 mm	T > -40 °C (-40 °F)

58H/E 40E Artikelnr., Item number, Numéro d'article, Número de artículo : WDGDS10001

d/mm	Lmin.	Lmax.	D
58H 6, 6.35 (1/4"), 7, 8, 9.525 (3/8"), 10, 12, 12.7 (1/2"), 14, 15	11	11	56
58E opt. 6, 6.35 (1/4"), 7, 8, 9.525 (3/8"), 10, 12, 15	11	39	56
58E magn. 6, 6.35 (1/4"), 7, 8, 9.525 (3/8"), 10, 12	11	16	56
40E 6	11	20	50

M5 (8.8), Ma=3Nm
M3 (8.8), Ma=1Nm

80H Artikelnr., Item number, Numéro d'article, Número de artículo : WDGDS10001

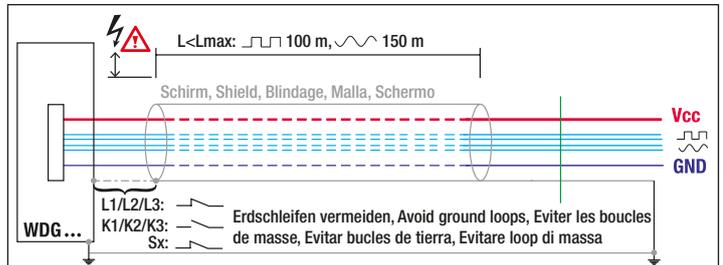
d/mm
80H 10, 12, 14, 15, 16, 18, 20, 25, 27

M5 (8.8), Ma=3Nm
2x M4 (8.8), Ma=2Nm

100I/K Artikelnr., Item number, Numéro d'article, Número de artículo : WDGDS10012

d/mm
WDG100I 25, 30, 32, 38, 40, 42
WDG100K 45

M6 (8.8), Ma=3Nm
M4, Ma=2Nm



WDGI36E Artikelnr., Item number, Numéro d'article, Número de artículo :

d/mm	Lmin.	Lmax.	D
WDGDS10016 WDG36E 6, 6.35 (1/4")	8	17	42
WDGDS10021 WDG36E 8, 10, 12, 14, 15	10	14,5	42

Ma = 0,5 Nm
M3 (8.8) Ma = 1 Nm
d = Ø 6 mm, 1/4"

100H/G Artikelnr., Item number, Numéro d'article, Número de artículo : WDGDS10001

d/mm
100H/G 25, 1Z (=25.4), 28, 30, 32, 35, 36, 38, 40, 42, 45

M5 (8.8), Ma=3Nm
2x M4 (8.8), Ma=2Nm

100G Artikelnr., Item number, Numéro d'article, Número de artículo : FEFB00H013-ZVK

M6 (8.8), Ma=3Nm
2x M4 (8.8), Ma=2Nm

145H Artikelnr., Item number, Numéro d'article, Número de artículo : WDGDS10001

d/mm
145H 45, 48, 50, 55, 60, 65, 72

3x M5 (8.8), Ma=3Nm
M4 (8.8), Ma=2Nm

Frühwarnausgang	OPEN-Collector	IRLED	IRLED
Early-warning output, Sortie d'alerte, Salida de advertencia temprana uscita di preavvertimento			
145H -> G24/I24/G05/I05		low	high
80H -> SIF/G24/I24/G05/I05/524			
100G/H/I/K -> SIF			
58H -> G24/I24/G05/I05/524		high	low
58E -> G24/I24/G05/I05/524			

