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Industriestraße 7 • D-65366 Geisenheim
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Fax: +49 (0) 67 22 / 99 65 -70
eMail: wdg@wachendorff.de
www.wachendorff-automation.de

Montageanleitung Vollwellengeber WDG/WDGI,

Assembly instructions shaft encoder, Notice de montage codeur rotatif à arbre plein,
Instrucciones de montaje encoder ad albero pieno, istruzioni di montaggio encoders de eje saliente.

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 (1Vpp): -10 °C ... +70 °C (14 °F ... +158 °F)
58T: -10 °C ... +70 °C (58T: +14 °F ... +158 °F)

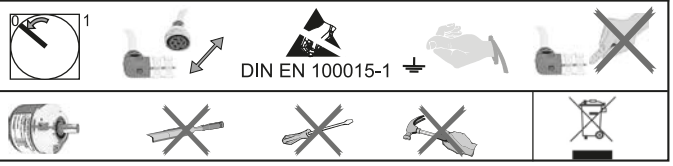
°C (°F)

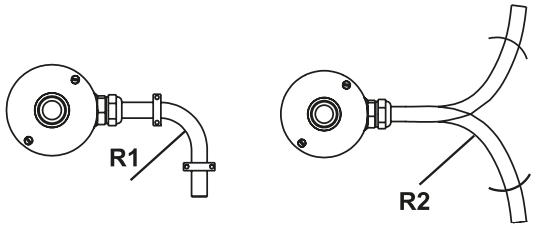
-30 °C...+80 °C
(-22 °F...+176 °F)

Montage nur qualifiziertes Personal, Assembly only qualified personnel, Montage pair 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. Utilícelo sólo en entornos industriales y NO en áreas relevantes para la seguridad. Utilizzare solo in ambienti industriali e NON in aree riguardanti la sicurezza.

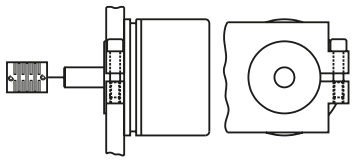
Power supply: Class 2 only



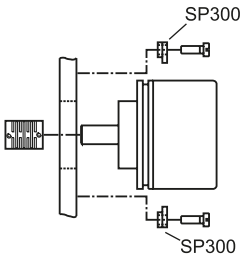


Kabel ø cable, Câble, Cable, cavo	R1	R2	**Temperatur** Temperature, Température, Temperatura, Temperatura
≤ 7 mm	31,5 mm	94,5 mm	T > -20 °C (-4 °F)
> 7 mm	41,5 mm	124,5 mm	T > -20 °C (-4 °F)
≤ 7 mm	46,5 mm	139,5 mm	T > -40 °C (-40 °F)
> 7 mm	62,3 mm	186,9 mm	T > -40 °C (-40 °F)

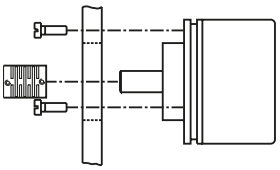
36K 40K 58B 58D 58K 58N 58S 58T 58V 63B 70B



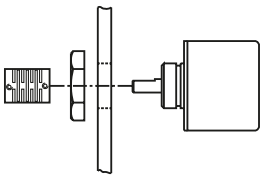
36A 58C 36J 58D 40A 58K 50B 58N 58A 58T 58B 63B



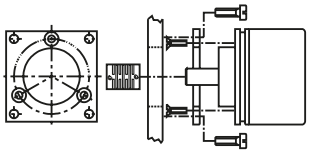
24C 58C 30A 58D 36A 58K 36J 58N 36K 58S 40A 58T 40K 58V 50B 63B 58A 70B 58B



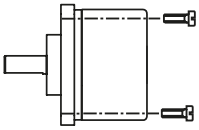
36S 40S 53S 53V



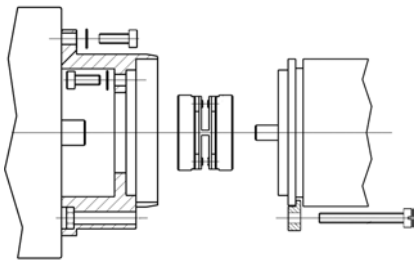
58B 58D 58K 58N 58S 58T 58V



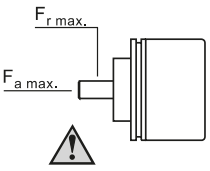
63Q 67Q 115T 115M



58A + MG58A

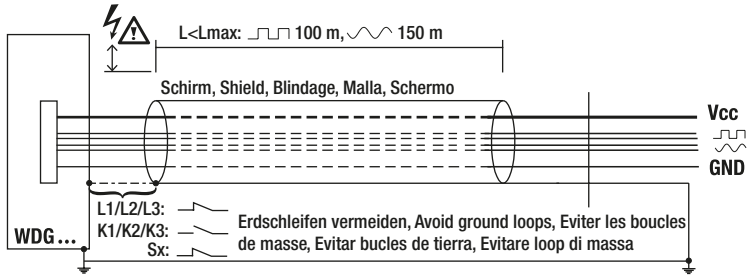


Standard (no IP67)	F_r max.	F_a max.
24C, 30A, 36A/K/S, 40A/K/S, 58K	80 N	50 N
36J	300 N	300 N
50B	120 N	70 N
53S, 53V	20 N	10 N
58A	125 N	70 N
58B, 58N, 58T, 63B/Q, 67Q	220 N	120 N
WDG58D	400 N	400 N
WDGI58D	500 N	500 N
70B	200 N	150 N
115T/M, 58C	200 N	120 N
58S, 58V	100 N	100 N

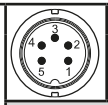
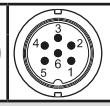
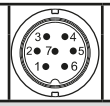
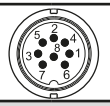
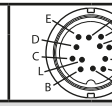
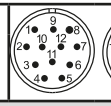
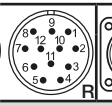
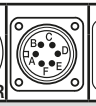
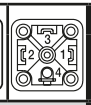
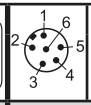
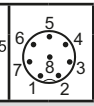
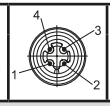
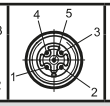
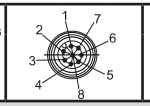
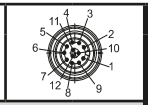


Gewinde (8.8) Screw thread, Filet, Rosca, filetto	**Empfohlenes Anzugsdrehmoment** Recommended starting torque Moment de rotation recommandé appliqué à l'écrou Par de apriete recomendado coppia di spunto consigliata
M2.5	1.5 Nm
M3	1 Nm
M4	2 Nm
M5, M14	3 Nm
M6	6 Nm
Mutter, Screw nut, écrou, Tuerca, dado, M20x1,5	8 Nm

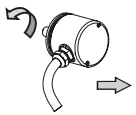
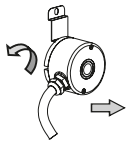
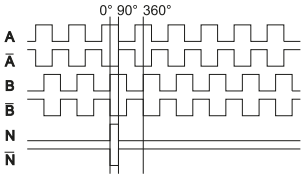
Frühwarnausgang Early-warning output Sortie d'alerte Salida de advertencia prematura uscita di preavvertimento		**IRLED** ⚠	**IRLED** 👍
Schaltung Circuit Couplage Conmutación collegamento	**G24, I24, G05, I05, 524**	**high**	**low**



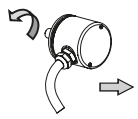
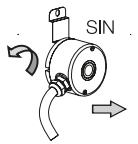
15.12.2022 Angaben ohne Gewähr, Irrtümer und Änderungen vorbehalten. Information not warranted. Errors and modifications reserved. Spécifications sous réserve d'erreur. Sauf erreur ou omission. Indicaciones sin garantía. Se reserva el derecho de error y modificación. Indicazioni senza garanzia. Salvo errori e modifiche. Artikelnummer, Item number, Numéro d'article, Número de artículo: BAWDGMAV00_ **25**

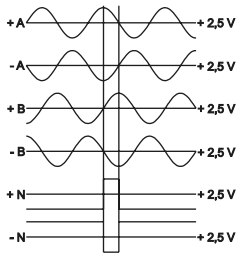
















	Stecker, connector, Fiche, Conector, spina											M8-			M12-Sensorstecker, sensor-connector, Fiche de palpeur, Conecto de sonda, spina sensore							Kabel, cable, Câble, Cable, cavo						
																							ACA: 24C 30A 40		ACA: 58, 63, 67, 70, 115		58S/V
	SI5 axial, SH5 radial, 5-pin	SI6 axial, SH6 radial, 6-pin	S2 axial, S3 radial, 7-pin	SI8 axial, SH8 radial, 8-pin		SI12 axial, SH12 radial, 12-pin		S4 axial, S5 radial, S4R axial, S5R radial, 12-pin		S6 radial, 6-pin	S7 axial, 4-pin	SK6 axial, 6-pin	SK8 axial, 8-pin		SB4 axial, SC4 radial, 4-pin	SB5 axial, SC5 radial, 5-pin	SB8 axial, SC8 radial, 8-pin			SB12 axial, SC12 radial, 12-pin		K2/L2 axial; K3/L3 radial T3 tangential K1/K7/L7						
Schaltung Circuit Couplage Conmutación collegamento	F/H/05 F/H24 H30 N35	G/F/H/05 G/F/H24 H30 N35	G/F/H/05 G/F/H24 H30 N35	F/H05 F/H24 H30 N35	P/R05 P/R24 245/645 SIN R30 M35	G/F/H05 G/F/H24 H30 N35	I/P/R05 I/P/R24 245, 524 645 SIN, SIF R30 M35	G/F/H05 G/F/H24 H30 N35	I/P/R05 I/P/R24 245, 524 645 SIN, SIF R30 M35	G/F/H05 G/F/H24 H30 N35	F/H/05 F/H24 H30 N35	N05 N30	N05 N30	M05 M30	F/H/05 F/H24 H30 N35	F/H/05 F/H24 H30 N35	F05 H05 F24 H24 H30 N35	P05 R05 P24 R24 R30 245 645 M35	Sinus	G/F05/ H05 G/F24/ H24 H30 N35	I/P/R05 I/P/R24 245 524 645 R30 M35	G/F/H05 G/F/H24 H30 N05 N30 N35	R30 M05 M30	M05 M30 R24 M35	I/R/P05 I/R/P24 245 524 645 R30 M35	I/R/P05 I/R/P24 245 524 645 M35	SIN SIF	I/R/P05 I/R/P24 245 524 645 R30
Minus U-	1	6	1	1	1	K / L	K / L	10	10	A	1	3	1	1	3	3	1	1	1	3	3	WH	WH	WH	WH	WH	WH	WH
Plus U+	2	1	2	2	2	M / B	M / B	12	12	F	2	2	2	2	1	1	2	2	2	1	1	BN	BN	BN	BN	BN	BN	BN
A	3	2	3	3	3	E	E	5	5	C	3	4	3	3	2	4	3	3	3	4	4	GN	GN	GN	GN	GN	GN	GN
B	4	4	4	4	4	H	H	8	8	B	4	5	4	4	4	2	4	4	5	6	6	YE	YE	YE	YE	YE	GY	YE
N	5	3	5	5	5	C	C	3	3	D	-	1	5	5	-	5	5	5	7	8	8	GY	GY	GY	GY	GY	BK	GY
Frühwarn-ausgang*1	-	5	6	-	-	G	G	11	11 / Sin 7	E	-	-	-	-	-	-	-	-	-	5	5	PK	-	-	PK	PK	RD	PK
A inv.	-	-	-	-	6	-	F	-	6	-	-	-	-	6	-	-	-	6	4	-	9	-	RD	RD	RD	RD	YE	RD
B inv.	-	-	-	-	7	-	A	-	1	-	-	-	-	7	-	-	-	7	6	-	7	-	PK	BK	BK	BU	PK	BU
N inv.	-	-	-	-	8	-	D	-	4	-	-	-	-	8	-	-	-	8	8	-	10	-	BU	VT	VT	VT	VT	VT
n. c.	-	-	7	6, 7, 8	-	A, D, F, J	J	1, 2, 4, 6, 7, 9	2, 7, 9 / Sinus 2, 9, 11	-	-	6	6, 7, 8	-	-	-	6, 7, 8	-	-	2, 7, 9, 10, 11, 12	2, 11, 12	-	-	-	-	-	-	-
Schirm*2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Litze, Flex, Toron, Cordón, Cavetto						

	U_B	I_{supply}	Output	$I_{OUT,max}$
R30, H30, N30, N35, M30, M35	5-30 VDC	≤70 mA N05, N30, N35, M05, M30, M35 ≤ 40 mA P05, P24, F05, F24, 645 ≤ 100 mA	H>U_B-10% U_B L<2,5VDC	40 mA N05, N30, M05, M30 = 30 mA
G24, H24, F24, I24, R24, P24	10...30 VDC		H>U_B-2,5VDC L<2,5VDC	
245, 524, 645			H>2,5VDC L<1,2VDC	
G05, H05, F05, I05, R05, N05, M05, P05	4,75...5,5VDC		H>2,5VDC L<0,5VDC	
Bemerkungen Remarks Notas Observaciones osservazioni	⚠	**Ohne Last** Without load resistance Sans charge Sin carga senza caric		**Pro Kanal** Per channel Par canal Por canal Per canale



	U_B	I_{supply}	Output
SIN, SIF	4,75...5,5 VDC	≤100mA	1V peak to peak +/- 25%
Bemerkungen Remarks Notas Observaciones osservazioni	⚠	**Ohne Last** Without load resistance Sans charge Sin carga senza carico	**Symetrisch an** Symetrically at Symétrique à Simétrico en simmetrico su Z_L=120 Ohm

*1 **Frühwarnausgang nur bei**
Early-warning output only for
Sortie d'alerte précoce
Salida de advertencia prematura
uscita di preavvertimento
G24, I24, G05, I05, 524, SIF (80H/100H/G/I/K)

*2 **Schirm**
Shield
Blindage
Malla
Schermo

Steckergehäuse aus Kunststoff (S7)
Plastic connector housing (S7)
Boîtier de connexion en matière plastique (S7)
Caja de conector de plástico (S7)
scatola prese in plastica (S7)

WH: weiss, white, blanc, blanco, bianco
BN: braun, brown, brun, marrón, marrone
GN: grün, green, vert, verde, verde
YE: gelb, yellow, jaune, amarillo, giallo
GY: grau, grey, gris, gris, grigio
PK: rosa, pink, rose, rosa, rosa
RD: rot, red, rouge, rojo, rosso
BK: schwarz, black, noir, negro, nero
BU: blau, blue, bleu, azul, blu
VT: violett, violet, violet, violeta, violetto
Litze: Litze, Flex, Toron, Cordón, Cavetto

Steckergehäuse/Schirm mit Gebergehäuse leitend verbunden. (Nicht S7, K1, K2, K3)
Connector housing/shield electrically connected to encoder housing (not S7, K1, K2, K3)
Boîtier de connexion/Ecran avec boîtier d'ementteur liés de manière conductrice (No S7, K1, K2, K3)
Caja de conector/Malla conectada en conductancia com caja de transmisor (No S7, K1, K2, K3)
Scatola prese/Schermo con scatola trasmettitore collegata da condurre (No S7, K1, K2, K3)

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