

ARS 20, ARS 25: Single-turn Absolute Encoders.

Modular Design for tailor-made solutions.

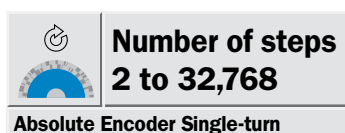


- Maximum reliability as a result of opto-ASICs with Chip-on-Board technology
- Square flange, servo and face mount options with 1/4", 3/8" and 10 mm solid shafts.

Whether with square flange, servo flange with connector or cable outlet, SSI or Parallel interface – ARS 20/25 single-turn absolute encoders will meet virtually any application profile.

Thanks to this wide variety of products, there are numerous possible uses, for example in:

- machine tools
- textile machines
- woodworking machines
- packaging machines



CoreTech®
by **SICK** | **STEGMANN**

CoreTech technology permits tailor-made solutions for every application, due to its modular design. ARS 20/25 single-turn absolute encoders are available with any desired number of steps between 2 and 32,768. Further highlights of this generation of encoders:

- Simple zero adjustment remotely via a signal line.
- Excellent price/performance ratio
- Long LED lifetime as a result of automatic light regulation

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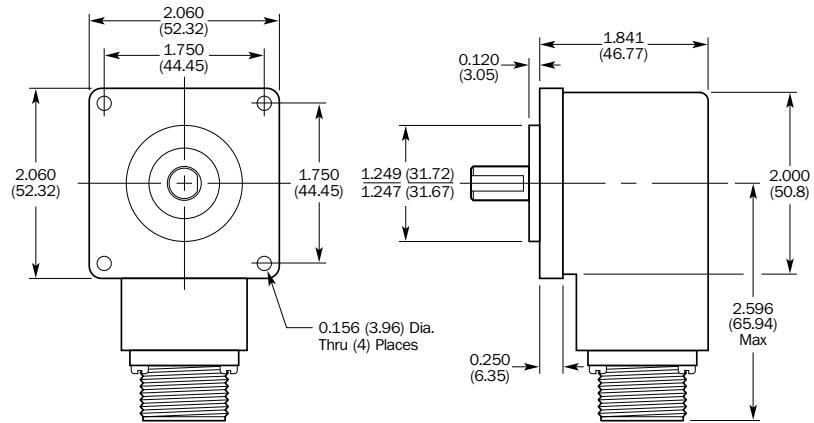


Number of steps
2 to 32,768

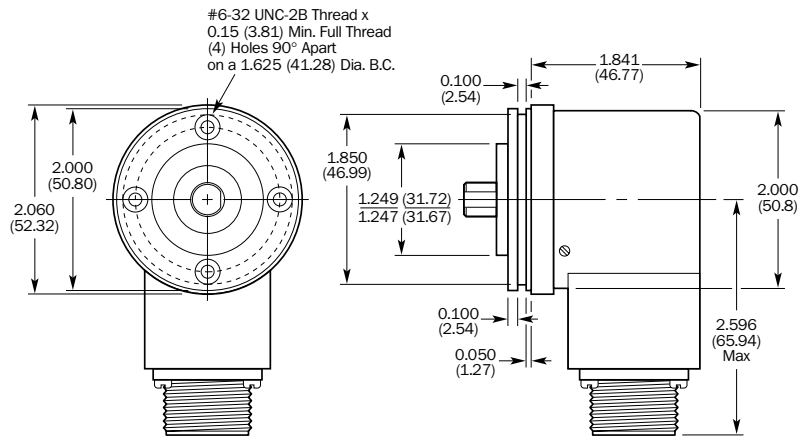
Absolute Encoder Single-turn

- Connector or cable outlet
- Protection class up to IP 66
- Electrical Interfaces
SSI or Parallel
- Zero adjustment via a remote line

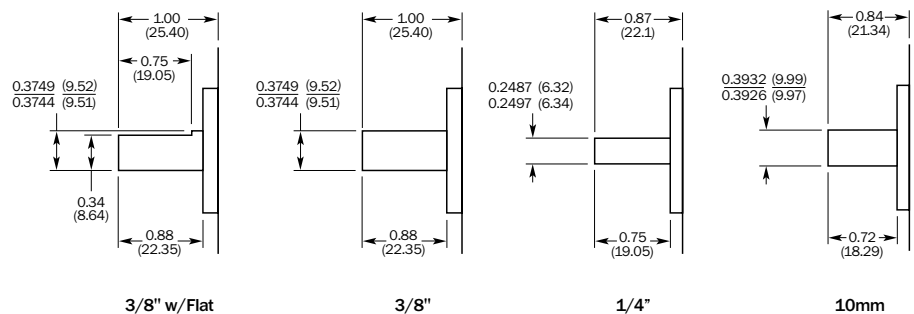
Dimensional Drawing Square Flange Mount



Dimensional Drawing Servo Flange Mount



Dimensional Drawing Shaft Options



Accessories

Connection systems

Mounting systems

Adapter modules

Technical data		ARS 20									
Solid shaft diameter	1/4", 3/8", 10mm										
Number of steps per revolution	00002 ... 32,768										
Electrical interfaces	SSI										
	+5-26 V Open Collector										
	+5 V TTL										
	+10-30 V Push-Pull										
Mass ¹⁾	Approx. 0.5 lb (0.22 kg)										
Moment of inertia of the rotor	0.184 lb-in ² (54 g-cm ²)										
Code direction ²⁾	CW										
Measurement range	1 revolution										
Measuring step	360°/number of steps										
Repeatability	0.005°										
Error limits											
binary number of steps	0.035°										
non-binary number of steps	0.046°										
Measuring step deviation											
binary number of steps	0.005°										
non-binary number of steps	0.016°										
Measured value backlash	0.005°										
Response threshold	0.003°										
Max. angular acceleration	5-x-10 ⁵ rad/s ²										
Max. operating speed											
with shaft seal	6,000 rpm										
without shaft seal	10,000 rpm										
Operating torque	0.2 lbf-in ² (2.6 Ncm)										
Start up torque	0.3 lbf-in ² (3.4 Ncm)										
Permissible shaft loading											
radial	4.5 lbf (20 N)										
axial	2.25 lbf (10 N)										
Bearing lifetime	3.6-x-10 ⁹ revolutions										
Working temperature range	-4...185° F (-20 ... 85 °C)										
Storage temperature range	-40...212° F (-40 ... 100 °C)										
Permissible relative humidity ³⁾	90 %										
EMC ⁴⁾											
Resistance											
to shocks ⁵⁾	50/11 g/ms										
to vibration ⁶⁾	20/10 ... 150 g/Hz										
Protection class acc. IEC 60529											
connector outlet ⁷⁾	IP 65										
cable outlet	IP 66										
Operating voltage range (+Vs)											
SSI	10...30 V										
Open Collector	8...24 V										
TTL	4.75...5.25 V										
Push-Pull	10...30 V										
Operating current											
SSI/Parallel	Typ. 60/90 mA										
Switching level of the control inputs											
	Logic H = 0.7 x Vs										
	Logic L = 0 V ... 0.3 x Vs										
Operation of zero-set ⁸⁾	≥ 100 ms										
Initialization time after power on	40 ms										

¹⁾ For an encoder with connector outlet

⁴⁾ To DIN EN 61000-6-2

⁶⁾ To DIN EN 60068-2-6

⁸⁾ Only with shaft stationary

²⁾ Increasing when viewing the clockwise rotating shaft

and DIN EN 61000-6-3

⁷⁾ With mating connector fitted

(note initialization time)

⁵⁾ To DIN EN 60068-2-27

³⁾ Condensation not permitted

Order information SSI Interface

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	–								

Electrical Interface

10...30 V SSI Gray	= A
10...30 V SSI Gray Capped	= B

Mechanical Interface

Square Flange, 1/4" Shaft	= E
Square Flange, 3/8" Shaft	= F
Square Flange, , 3/8" Shaft with Flat	= G
Square Flange, 10 mm Shaft	= C
Servo Flange/Face Holes, 1/4" shaft	= 5
Servo Flange/Face Holes, 3/8" shaft	= 6
Servo Flange/Face Holes, 3/8" shaft w/ flat	= 7
Servo Flange/Face Holes, 10 mm shaft	= 8

Connection Type

Radial Connector (M23, 12 pin)	= A
Radial Cable 1.0 m	= 2
Radial Cable 1.5 m	= K
Radial Cable 3.0 m	= L
Radial Cable 5.0 m	= M
Radial Cable 10.0 m	= N

Resolution

Any number of steps from 00002 up to 32,768 possible.
Always 5 characters in clear text.

Order example: Single-turn Absolute Encoder ARS 20 SSI

10...30 V, SSI, Gray; Square Flange; 3/8" shaft; 12-pin, radial, number of steps: 8192

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	–	A	F	A	0	8	1	9	2

Please enter your individual encoder here

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	–								

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	–								

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	–								

Order information Parallel Interface

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	-								

Electrical Interface

10...30 V Par Gray	= F
10...30 V Par Gray Capped	= G
10...30 V Par Binary	= H
10...30 V Par BCD	= J
8...24 V, Open Collector ¹ , Gray	= 2
8...24 V, Open Collector ¹ , Gray Capped	= 3
8...24 V, Open Collector ¹ , Binary	= 4
8...24 V, Open Collector ¹ , BCD	= 5
5 V, TTL (7407) Gray	= 6
5 V, TTL (7407) Gray Capped	= 7
5 V, TTL (7407) Binary	= 8
5 V, TTL (7407) BCD	= 9

1) Open Collector (7407)

Mechanical Interface

Square Flange, 1/4" Shaft	= E
Square Flange, 3/8" Shaft	= F
Square Flange, 3/8" Shaft with Flat	= G
Square Flange, 10mm Shaft	= C
Servo Flange/Face Holes, 1/4" shaft	= 5
Servo Flange/Face Holes, 3/8" shaft	= 6
Servo Flange/Face Holes, 3/8" shaft w/ flat	= 7
Servo Flange/Face Holes, 10 mm shaft	= 8

Connection Type

Radial Cable 1.0 m	= 2
Radial Cable 1.5 m	= K
Radial Cable 3.0 m	= L
Radial Cable 5.0 m	= M
Radial Cable 10.0 m	= N
Radial Connector (MS 23 pin)	= 4
Radial Connector (MS 19 pin)	= 5

Resolution

Any number of steps from 00002 up to 32,768 possible, with the following electrical interfaces:
 10 ... 32 V, parallel, Gray
 10 ... 32 V, parallel, Gray Excess
 10 ... 32 V, parallel, BIN

Number of steps from 00002 up to 08000 possible, with the electrical interface:
 10 ... 32 V, parallel, BCD
 Always 5 characters in clear text.

Order example: Single-turn Absolute Encoder ARS 20 Parallel**10...30 V, Push-Pull, Gray; Square Flange; 3/8" shaft; 23-pin, radial, number of steps: 8192**

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	-	F	F	4	0	8	1	9	2

Please enter your individual encoder here

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	-								

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	-								

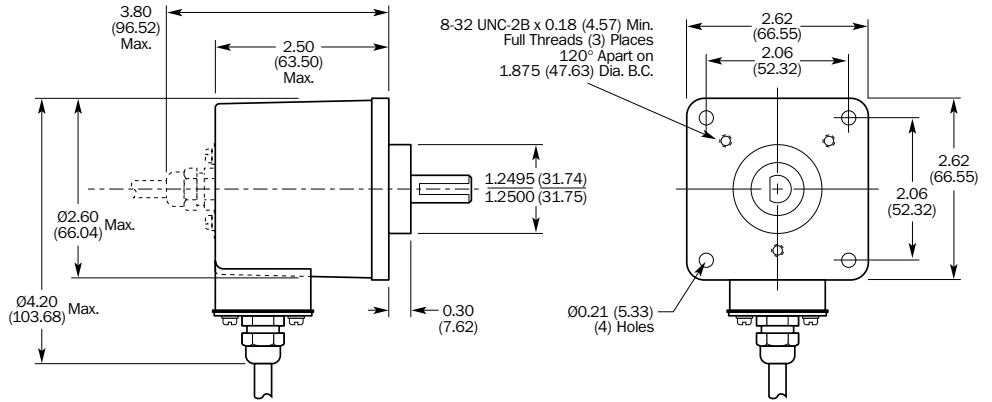
Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	0	-								

Number of steps
2 to 32,768

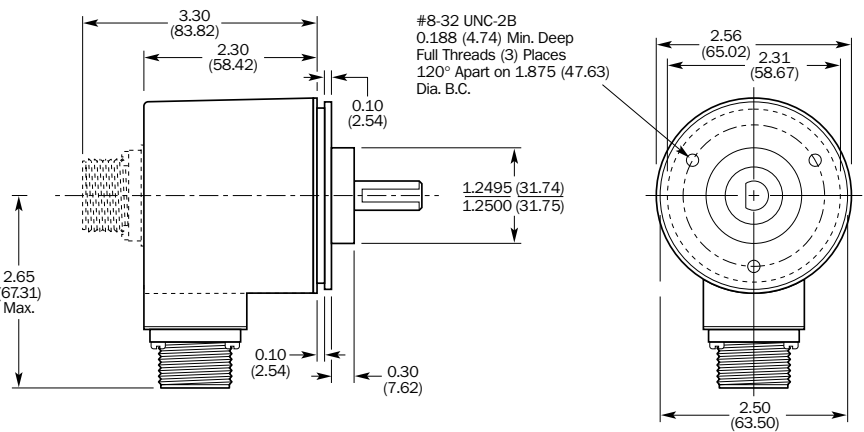
Absolute Encoder Single-turn

- Connector or cable outlet
- Protection class up to IP 66
- Electrical Interfaces
SSI or Parallel
- Zero adjustment via a remote line

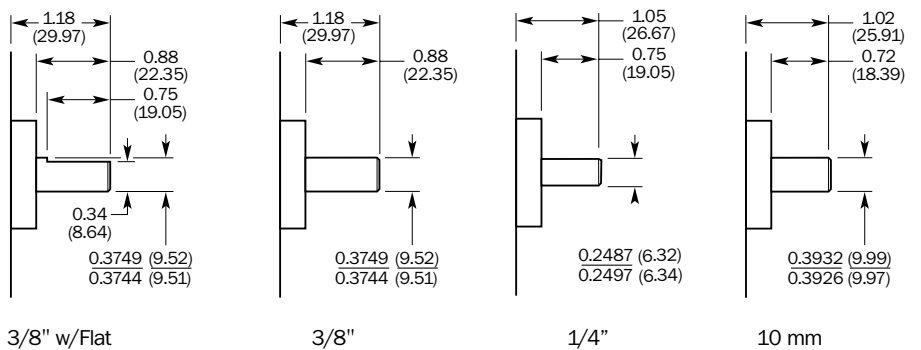
Dimensional Drawing Square Flange Mount



Dimensional Drawing Servo Flange Mount/Face Mount



Dimensional Drawing Shaft Options



Accessories
Connection systems
Mounting systems
Adapter modules

Order information SSI Interface

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	–								

Electrical Interface

10...30 V SSI Gray	= A
10...30 V SSI Gray Capped	= B

Mechanical Interface

Square Flange, 1/4" Shaft	= E
Square Flange, 3/8" Shaft	= F
Square Flange, 3/8" Shaft with Flat	= G
Square Flange, 10 mm Shaft	= C
Servo Flange/Face Holes, 1/4" shaft	= 5
Servo Flange/Face Holes, 3/8" shaft	= 6
Servo Flange/Face Holes, 3/8" shaft w/ flat	= 7
Servo Flange/Face Holes, 10 mm shaft	= 8

Connection Type

Radial Connector (M23, 12 pin)	= A
Axial Connector (M23, 12 Pin)	= B
Radial Cable 1.0 m	= 2
Radial Cable 1.5 m	= K
Radial Cable 3.0 m	= L
Radial Cable 5.0 m	= M
Radial Cable 10.0	= N
Axial Cable 1.0 m	= 3
Axial Cable 1.5 m	= R
Axial Cable 3.0 m	= S
Axial Cable 5.0 m	= T
Axial Cable 1.0 m	= U

Resolution

Any number of steps from 00002 up to 32,768 possible
Always 5 characters in clear text.

Order example: Single-Turn Absolute Encoder ARS 25 SSI

10...30 V, SSI, Gray; Square Flange; 3/8" shaft; 12-pin, radial, number of steps: 8192

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	–	A	F	A	0	8	1	9	2

Please enter your individual encoder here

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	–								

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	–								

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	–								

Order information Parallel Interface

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	-								

Electrical Interface

10...30 V Par Gray	=	F
10...30 V Par Gray Capped	=	G
10...30 V Par Binary	=	H
10...30 V Par BCD	=	J
8...24 V, Open Collector ¹ , Gray	=	2
8...24 V, Open Collector ¹ , Gray Capped	=	3
8...24 V, Open Collector ¹ , Binary	=	4
8...24 V, Open Collector ¹ , BCD	=	5
5 V, TTL (7407) Gray	=	6
5 V, TTL (7407) Gray Capped	=	7
5 V, TTL (7407) Binary	=	8
5 V, TTL (7407) BCD	=	9

1) Open Collector (7407)

Mechanical Interface

Square Flange, 1/4" Shaft	=	E
Square Flange, 3/8" Shaft	=	F
Square Flange, 3/8" Shaft with Flat	=	G
Square Flange, 10 mm Solid Shaft	=	C
Servo Flange/Face Holes, 1/4" shaft	=	5
Servo Flange/Face Holes, 3/8" shaft	=	6
Servo Flange/Face Holes, 3/8" shaft w/ flat	=	7
Servo Flange/Face Holes, 10 mm shaft	=	8

Connection Type

Radial Cable 1.0 m	=	2
Radial Cable 1.5 m	=	K
Radial Cable 3.0 m	=	L
Radial Cable 5.0 m	=	M
Radial Cable 10.0 m	=	N
Axial Cable 1.0 m	=	3
Axial Cable 1.5 m	=	R
Axial Cable 3.0 m	=	S
Axial Cable 5.0 m	=	T
Axial Cable 10 m	=	U
Radial Connector (MS 23 pin)	=	4
Radial Connector (MS 19 pin)	=	5
Axial Connector (MS 23 pin)	=	7
Axial Connector (MS 19 pin)	=	8
Axial Connector (MS 17 pin)	=	9

Resolution

Any number of steps from 00002 up to 32,768 possible, with the following electrical interfaces:
 10 ... 32 V, parallel, Gray
 10 ... 32 V, parallel, Gray Excess
 10 ... 32 V, parallel, BIN

Number of steps from 00002 up to 08000 possible, with the electrical interface:
 10 ... 32 V, parallel, BCD
 Always 5 characters in clear text.

Order example: Single-Turn Absolute Encoder ARS 25 Parallel**10...30 V, Push-Pull, Gray; Square Flange; 3/8" shaft; 23-pin, radial, number of steps: 8192**

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	-	F	F	4	0	8	1	9	2

Please enter your individual encoder here

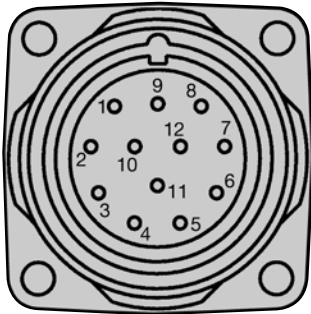
Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	-								

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	-								

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
A	R	S	2	5	-								

PIN and wire allocation

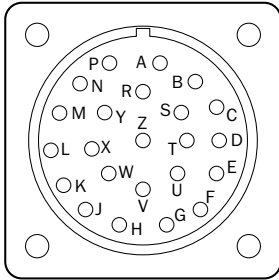
Allocation for encoder with 12 pin connector; Interface



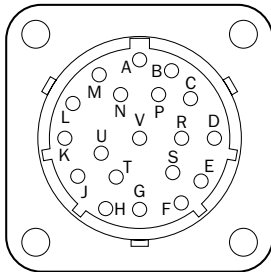
View of the connector M23 fitted to the encoder body SSI

Signal	Cable	12 Pin
GND	Blue	1
Data (+)	White	2
Clock (+)	Yellow	3
N/C		4
cw/ccw	Pink	5
N/C		6
N/C		7
+Vs	Red	8
Set Zero	Orange	9
Data (-)	Brown	10
Clock (-)	Violet	11
N/C		12
Case	Shield	

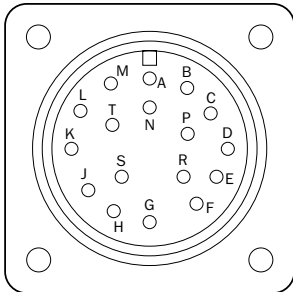
Allocation for encoder with 23, 19, or 17 pin connector Parallel Interface



23 Pin KPT02E20-23P



19 Pin KPT02E14-19P



17 Pin MS3102R

Function	Cable	17 pin	19 pin	23 pin
Bit 0	Lilac	A	A	A
Bit 1	white/brown	B	B	B
Bit 2	white/green	C	C	C
Bit 3	white/yellow	D	D	D
Bit 4	white/grey	E	E	E
Bit 5	white/pink	F	F	F
Bit 6	white/blue	G	G	G
Bit 7	white/red	H	H	H
Bit 8	white/black	J	J	J
Bit 9	brown/green	K	K	K
Bit 10	brown/yellow	L	L	L
Bit 11	brown/grey	M	M	M
Bit 12	brown/pink	N	N	N
Bit 13	brown/blue	--	P	P
Bit 14	brown/red	--	--	R
cw/ccw	brown	T	S	S
GND	blue	R	T	T
Store	pink	--	R	U
+Vs	red	S	V	V
Set Zero	grey	P	U	W
Enable	yellow*	--	--	X*
Parity	green	--	--	Y
Case	shield	--	--	Z

* Available only with 10...30 V Push-Pull (7272) on ARS 25

V_s Supply voltage to the encoder (before commissioning, note must be taken of the type label of the encoder).
GND Zero volt connection to the encoder: electrically isolated from the housing. The voltage referred to GND is U_s.
CW/CCW_— Forward/reverse: this input programs the counting direction of the encoder. If not connected, this input is »HIGH«. If the encoder shaft, as viewed on the drive shaft, rotates in the clockwise direction, it counts in an increasing sequence. If it should count upwards when the shaft rotates in the anti-clockwise direction, this connection must be connected permanently to »LOW« level (zero volts).

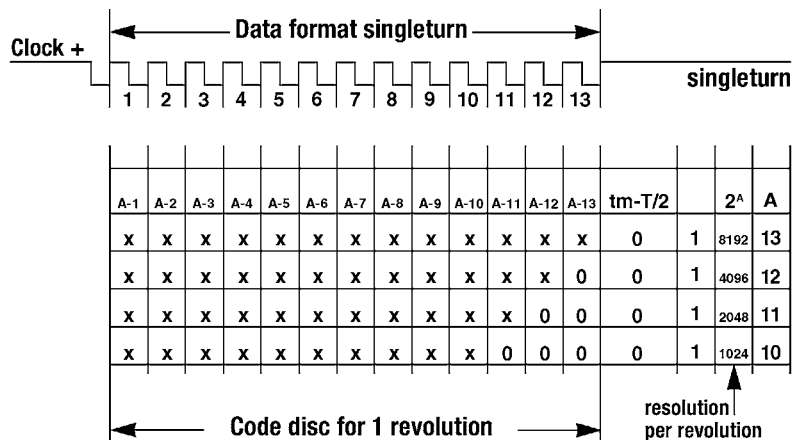
Enable_— This input activates the data output driver when a »LOW« level is applied. If not connected, this input is »LOW«. In the case of a »HIGH« level, the outputs are in the tristate mode.
Store_— This input stores the encoder data in Gray code when a »LOW« level is applied. This avoids a read error if the output data is requested in binary code. If this input is »LOW«, the data at the encoder output is stable, irrespective of whether the input shaft rotates. If not switched, this input is »HIGH«.
Parity This output supplies a »HIGH« level when the binary check sum of the data bits is even.
SET This input serves to set the zero electronically. If the SET line is connected to U_s for more than 100 ms, the mechanical position corresponds to the value 0.

Signal outputs**SSI Data format for resolutions $\leq 8,192$ (1-13 bits)**

In order to be compatible with the data formats on the market, a distinction is made in the ARS 60 between two data formats.

The first data format applies to the encoder designs with-resolutions up to 13 bits.

This is the standard data format for the single-turn absolute encoder.

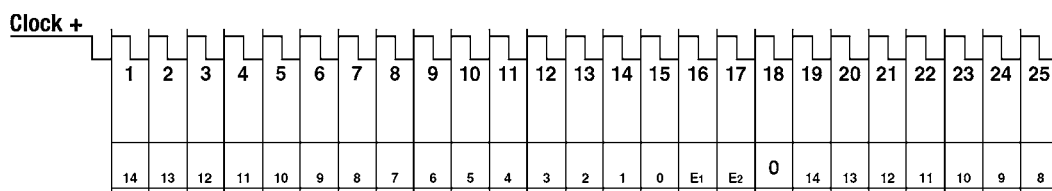
**SSI Data format for resolutions $> 8,192$ (14 and 15 bits)**

The data transmitted is left-justified. The 15 data bits are followed by two error bits.

Error 1 (E₁) = Position error

During the determination of the position, an error has occurred since the last SSI transmission.

This error bit will be deleted during the next SSI transmission.

Error 2 (E₂) = light source monitoring

Dimensional drawings and order information

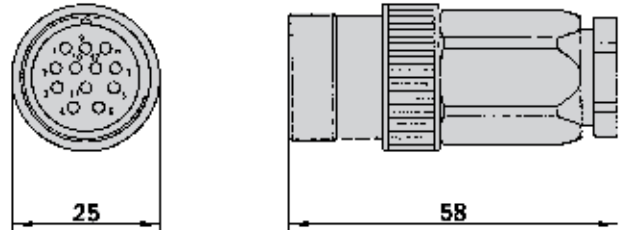
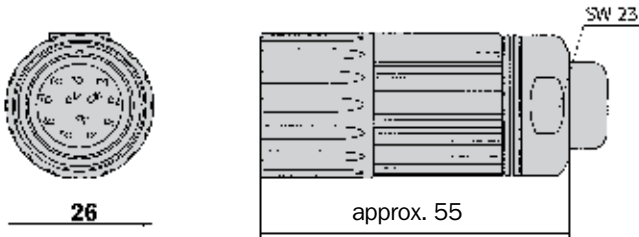
Screw-in system M23, 12 pin

Female connector M23, 12 pin, straight, screened

Type	Part no.	Contacts
DOS-2312-G	6 027 538	12

Male connector M23, 12 pin, straight, screened

Type	Part no.	Contacts
STE-2312-G	6 027 537	12



General tolerances according to DIN ISO 2768-mk

General tolerances according to DIN ISO 2768-mk

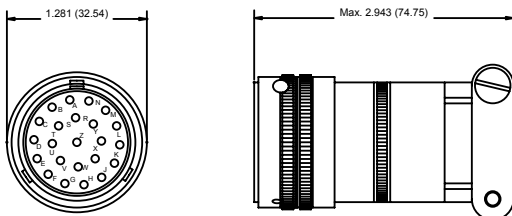
Female connector M23, 12 pin, straight, cable 12 pin, 4 x 2 x 0.25 + 2 x 0.5 + 2 x 0.14 mm² with screening, capable of being dragged, cable diameter 7.8 mm

Type	Part no.	Contacts	Cable length
DOL-2312-G1M5MA2	2 029 206	12	1.5 m
DOL-2312-G03MMA2	2 029 207	12	3.0 m
DOL-2312-G05MMA2	2 029 208	12	5.0 m
DOL-2312-G10MMA2	2 029 209	12	10.0 m
DOL-2312-G20MMA2	2 029 210	12	20.0 m
DOL-2312-G30MMA2	2 029 211	12	30.0 m

Screw-in system MS 23 pin

Female connector MS3116, 23 pin, straight

Type	Part no.	Contacts
DOS-MS23-G	7 102 108	23



DOS-MS23-G

Female connector MS3116, 23 pin, straight, cable 22 core, 20 x 2 x 0.14 + 2 x 0.5 mm² with screening, capable of being dragged, cable diameter 7.8 mm

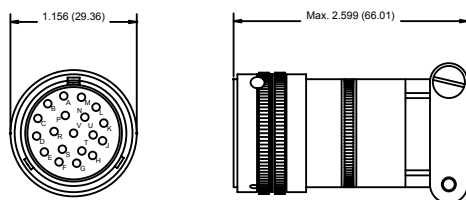
Type	Part no.	Contacts	Cable length
DOL-MS23-G1M5MA2	7 102 109	23	1.5 m
DOL-MS23-G03MMA2	7 102 110	23	3.0 m
DOL-MS23-G05MMA2	7 102 111	23	5.0 m
DOL-MS23-G10MMA2	7 102 112	23	10.0 m
DOL-MS23-G20MMA2	7 102 113	23	20.0 m
DOL-MS23-G30MMA2	7 102 114	23	30.0 m

Dimensional drawings and order information

Screw-in system MS 19 pin

Female connector MS 3116, 19 pin, straight

Type	Part no.	Contacts
DOS-MS19-G	7 102 115	19



DOS-MS19-G

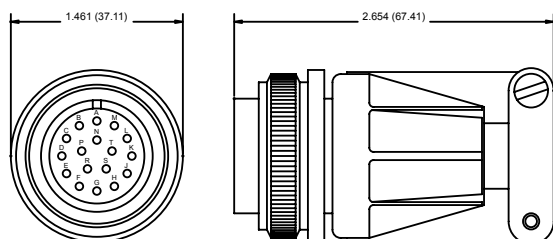
Female connector MS 3116, 19 pin, straight, cable 22 core, 20 x 2 x 0.14 + 2 x 0.5 mm² with screening, capable of being dragged, cable diameter 7.8 mm

Type	Part no.	Contacts	Cable length
DOL-MS19-G1M5MA2	7 102 116	19	1.5 m
DOL-MS19-G03MMA2	7 102 117	19	3.0 m
DOL-MS19-G05MMA2	7 102 118	19	5.0 m
DOL-MS19-G10MMA2	7 102 119	19	10.0 m
DOL-MS19-G20MMA2	7 102 120	19	20.0 m
DOL-MS19-G30MMA2	7 102 121	19	30.0 m

Screw-in system MS 17 pin

Female connector MS 3106, 17 pin, straight

Type	Part no.	Contacts
DOS-MS17-G	7 102 122	17


Female connector MS 3106, 17 pin, straight, cable 22 core, 20 x 2 x 0.14 + 2 x 0.5 mm² with screening, capable of being dragged, cable diameter 7.8 mm

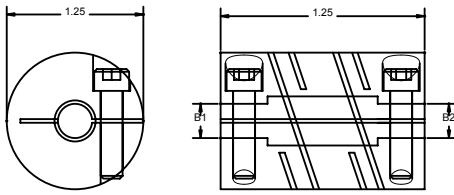
Type	Part no.	Contacts	Cable length
DOL-MS17-G1M5MA2	7 102 123	17	1.5 m
DOL-MS17-G03MMA2	7 102 124	17	3.0 m
DOL-MS17-G05MMA2	7 102 125	17	5.0 m
DOL-MS17-G10MMA2	7 102 126	17	10.0 m
DOL-MS17-G20MMA2	7 102 127	17	20.0 m
DOL-MS17-G30MMA2	7 102 128	17	30.0 m

Dimensional drawings and order information

Couplings

Helvetical curved beam, max. shaft offset radial 0.010 in., axial 0.012 in., torsional stiffness 0.5 lb-in./min, anodized aluminum

Type	Part no.	Shaft diameter
KUP-1414-H	7 102 150	1/4 in ... 1/4 in
KUP-3838-H	7 102 151	3/8 in ... 3/8 in
KUP-3814-H	7 102 152	3/8 in ... 1/4 in
KUP-1038-H	7 102 153	10 mm ... 3/8 in
KUP-1010-H	7 102 154	10 mm ... 10 mm



KUP-XXXX-H

Cables

Cable 11 core, per meter, $4 \times 2 \times 0.25 + 2 \times 0.5 + 1 \times 0.14 \text{ mm}^2$
with screening, cable diameter 7.5 mm

Type	Part no.	Wires
LTG-2411-MW	6 027 530	11

Cable 12 core, per meter, $4 \times 2 \times 0.25 + 2 \times 0.5 + 2 \times 0.14 \text{ mm}^2$
with screening, capable of being dragged, cable diameter 7.8 mm

Type	Part no.	Wires
LTG-2512-MW	6 027 531	12

Cable 22 core, per meter, $20 \times 0.14 + 2 \times 0.5 \text{ mm}^2$ with screening,
cable diameter 7.8 mm

Type	Part no.	Wires
LTG-2622-MW	6 027 532	22

Dimensional drawings and order information

Adapter modules for SSI Interface

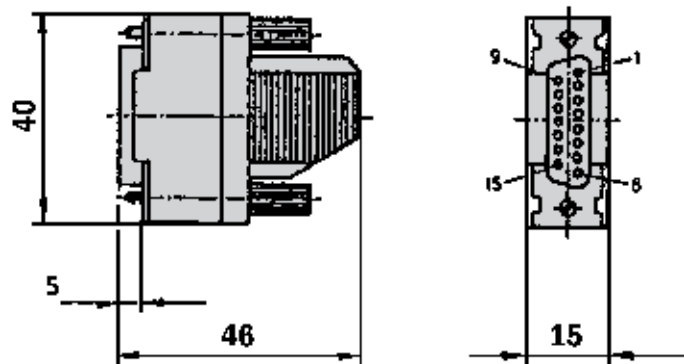
Serial-Parallel Adapter modules

Type	Part no.	Description
AD-SSIG-PA	1 030 106	SSI-Parallel Adapter module in plastic housing
AD-SSI-PA	1 030 107	SSI-Parallel Adapter module without plastic housing
AD-SSIPG-PA	1 030 108	SSI-Parallel Adapter module, programmable, in plastic housing
AD-SSIPIF-PA	1 030 109	SSI-Parallel Adapter module programmable, without plastic housing, with front plate
AD-SSIP-PA	1 030 110	SSI-Parallel Adapter module programmable, without plastic housing, without front plate

Screw-in systems Sub-D for Adapter modules

Male connector Sub-D, 15 pin, straight, screened

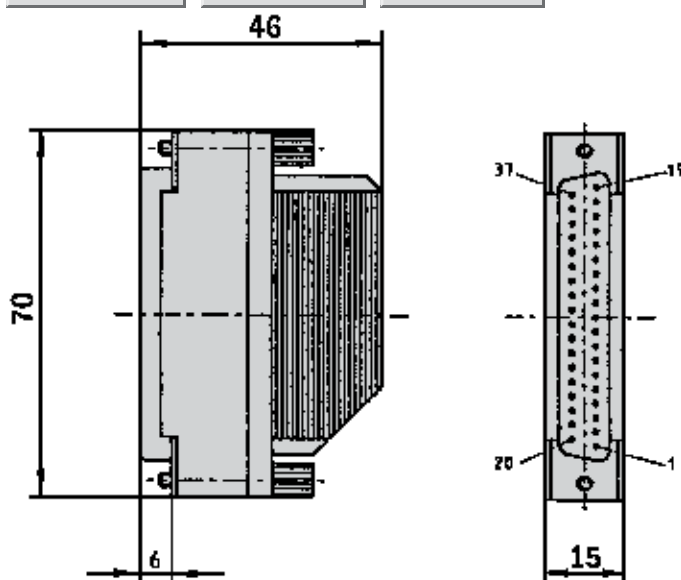
Type	Part no.	Contacts
STE-0D15-G	2 029 223	15



General tolerances according to DIN ISO 2768-mk

Female connector Sub-D, 37 pin, straight, screened

Type	Part no.	Contacts
DOS-0D37-G	2 029 224	37



General tolerances according to DIN ISO 2768-mk

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