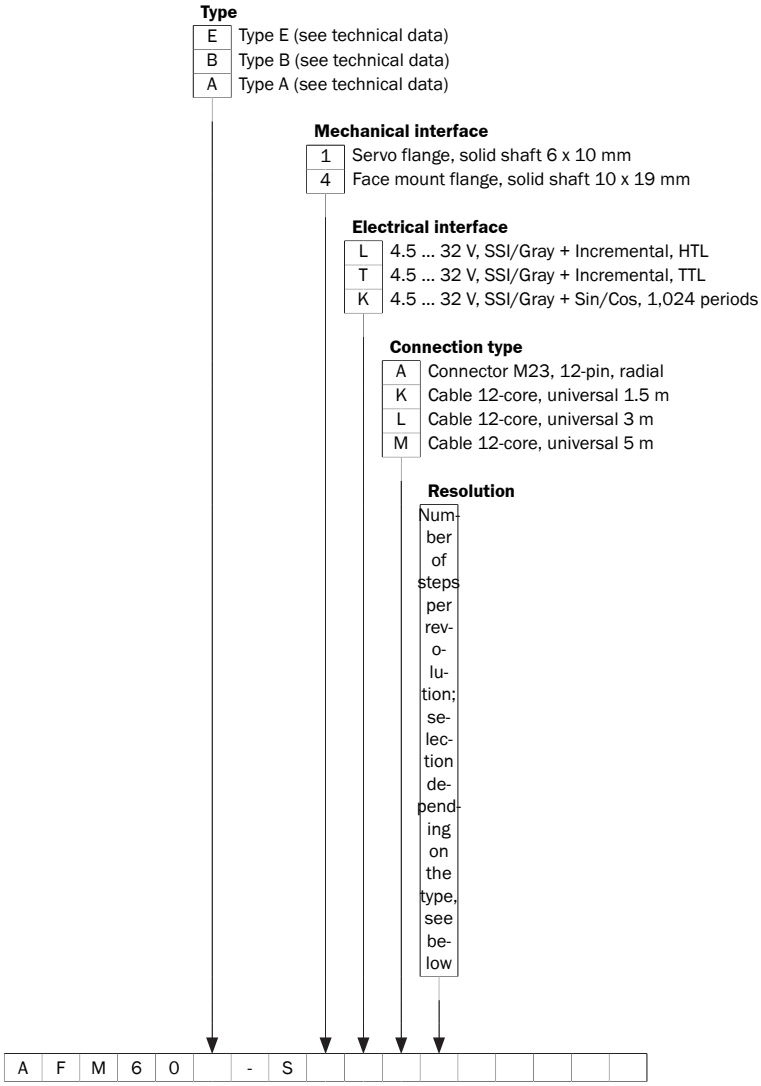
Type code



Number of lines per revolution x 4096 (12 Bit), numer of incremental lines in brackets

Type E

000256	8 Bit (64)	001024	10 Bit (256)	004096	12 Bit (1024)
000512	9 Bit (128)	002048	11 Bit (512)		

Typ B

000256	8 Bit (64)	002048	11 Bit (512)	016384	14 Bit (4096)
000512	9 Bit (128)	004096	12 Bit (1024)	032768	15 Bit (8192)
001024	10 Bit (256)	008192	13 Bit (2048)		

Typ A

000256	8 Bit (64)	002048	11 Bit (512)	016384	14 Bit (4096)
000512	9 Bit (128)	004096	12 Bit (1024)	032768	15 Bit (8192)
001024	10 Bit (256)	008192	13 Bit (2048)	065536	16 Bit (16384)

131072	17 Bit (32768)
262144	18 Bit (65536)

Type

E	Type E (see technical data)
B	Type B (see technical data)
A	Type A (see technical data)

Mechanical interface

B	Blind hollow shaft
T	Through hollow shaft

B Hollow shaft diameter 8 mm

C	Hollow shaft diameter 3/8"
D	Hollow shaft diameter 10 mm
E	Hollow shaft diameter 12 mm
F	Hollow shaft diameter 1/2"
G	Hollow shaft diameter 14 mm
H	Hollow shaft diameter 15 mm

Eletrical interface

A	4.5 ... 32 V, SSI/Gray

Connection type

A	Connector M23, 12-pin, radial
C	Connector M12, 8-pin, radial
K	Cable 8-core, universal 1.5 m [1)]
L	Cable 8-core, universal 3 m [1)]
M	Cable 8-core, universal 5 m [1)]

Resolution

Number of steps per revolution; selection depending	

Number of lines per revolution x 4096 (12 Bit)

Type E

000256	8 Bit	001024	10 Bit	004096	12 Bit
000512	9 Bit	002048	11 Bit		

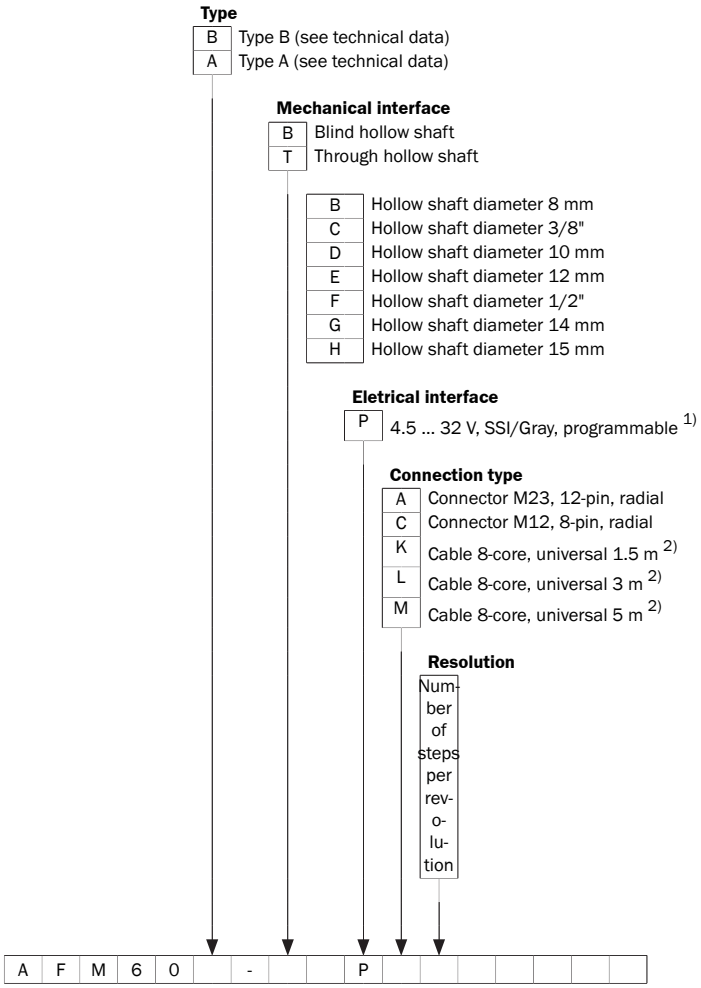
Type B

000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit		

Type A

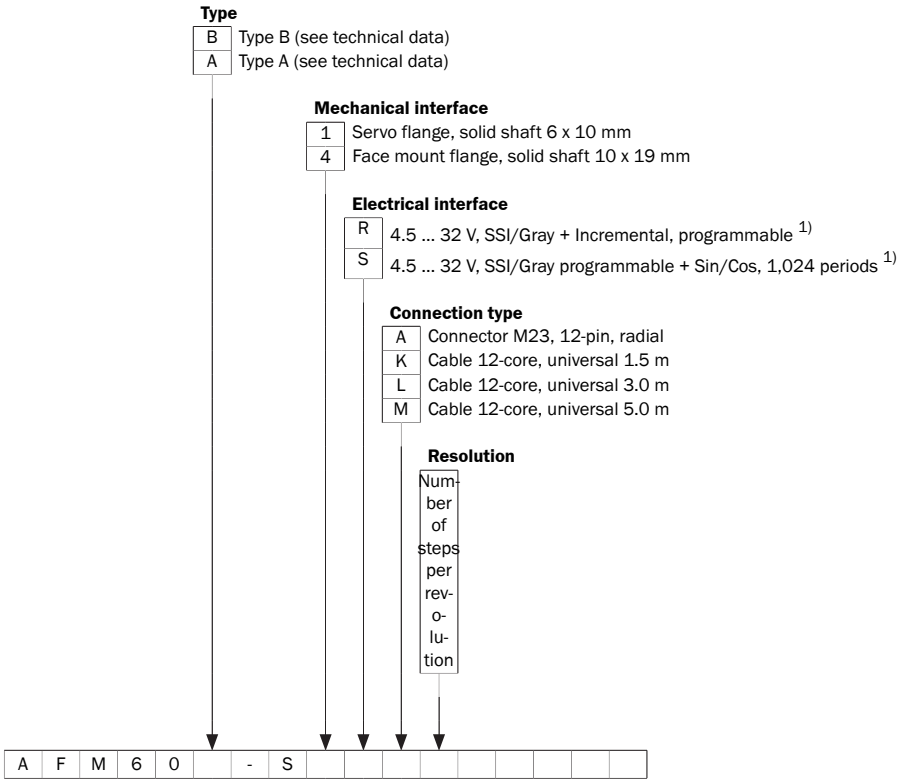
000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit	065536	16 Bit

131072	17 Bit
262144	18 Bit

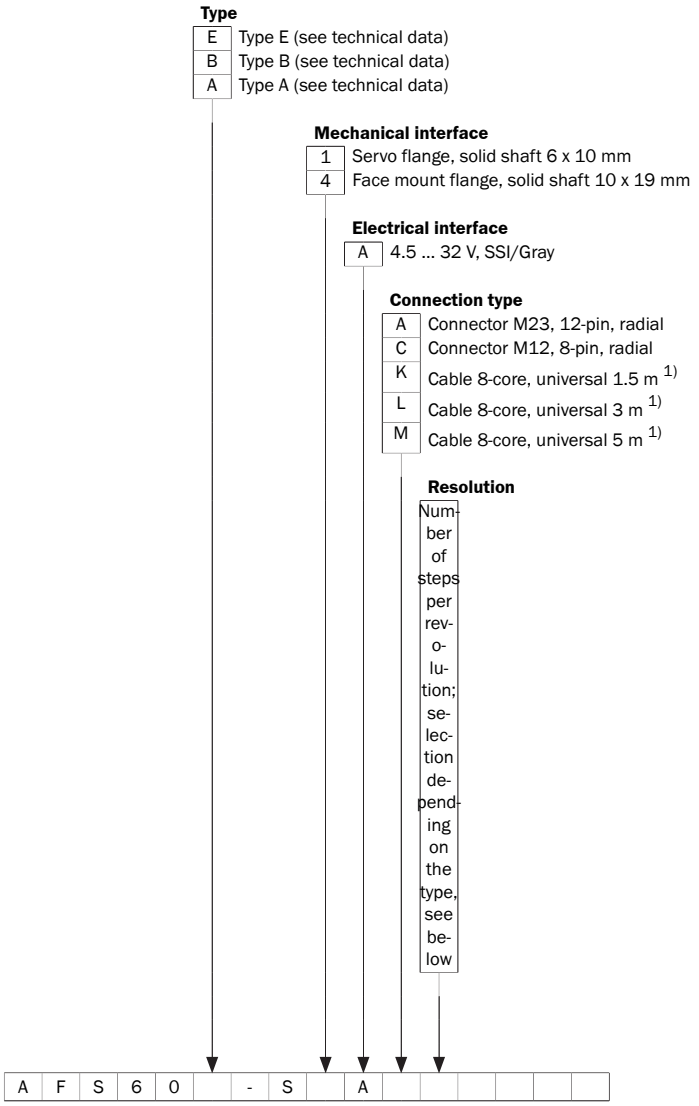


1) Number of steps of 256 (8 Bit) to 262144 (18 Bit) freely programmable by customer. Factory-programmed to Type B: Type A: 262144.

2) The universal cable outlet is positioned in such a way, that it is possible to lay the cable in a radial or axial direction without kniking it.



1) Number of steps of 2 to 262144 freely programmable by customer. Factory-programmed to Type B: Type A: 262144. Number of incremental lines is always 1/4 of number of SSI/Gray steps.



1) The universal cable outlet is positioned in such a way, that it is possible to lay the cable in a radial or axial direction without kniking it.

Number of lines per revolution

Type E

000256	8 Bit	001024	10 Bit	004096	12 Bit
000512	9 Bit	002048	11 Bit		

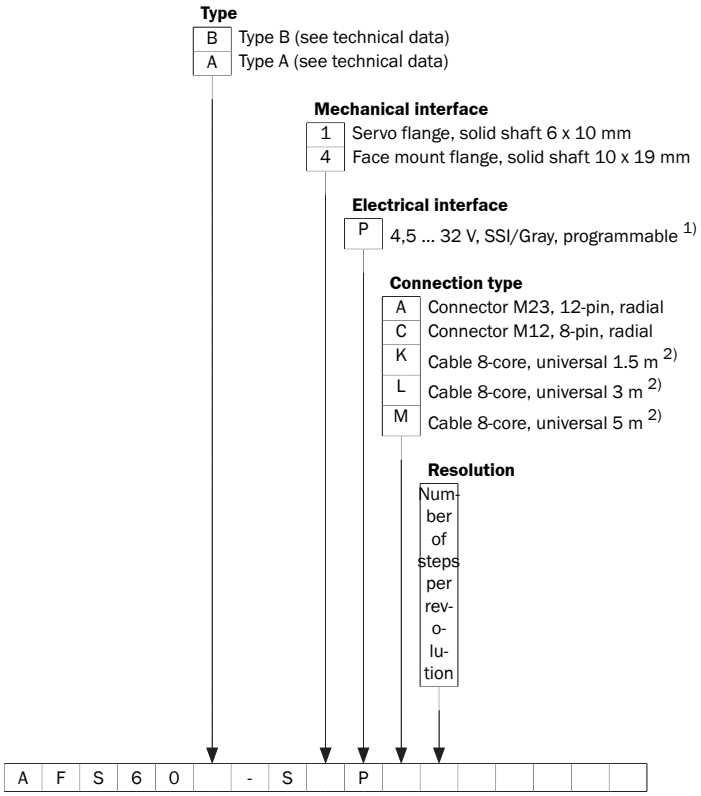
Type B

000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit		

Type A

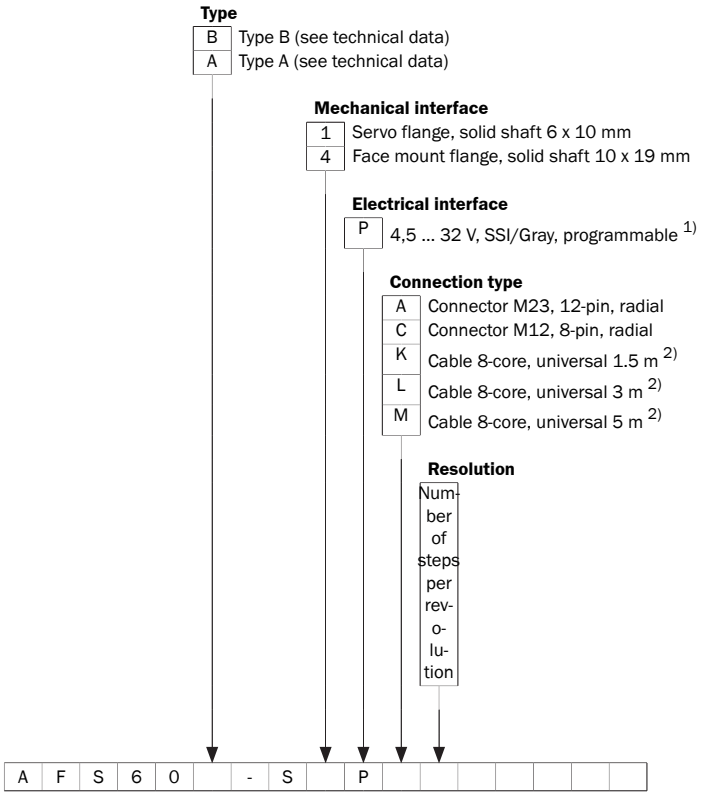
000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit	065536	16 Bit

131072	17 Bit
262144	18 Bit



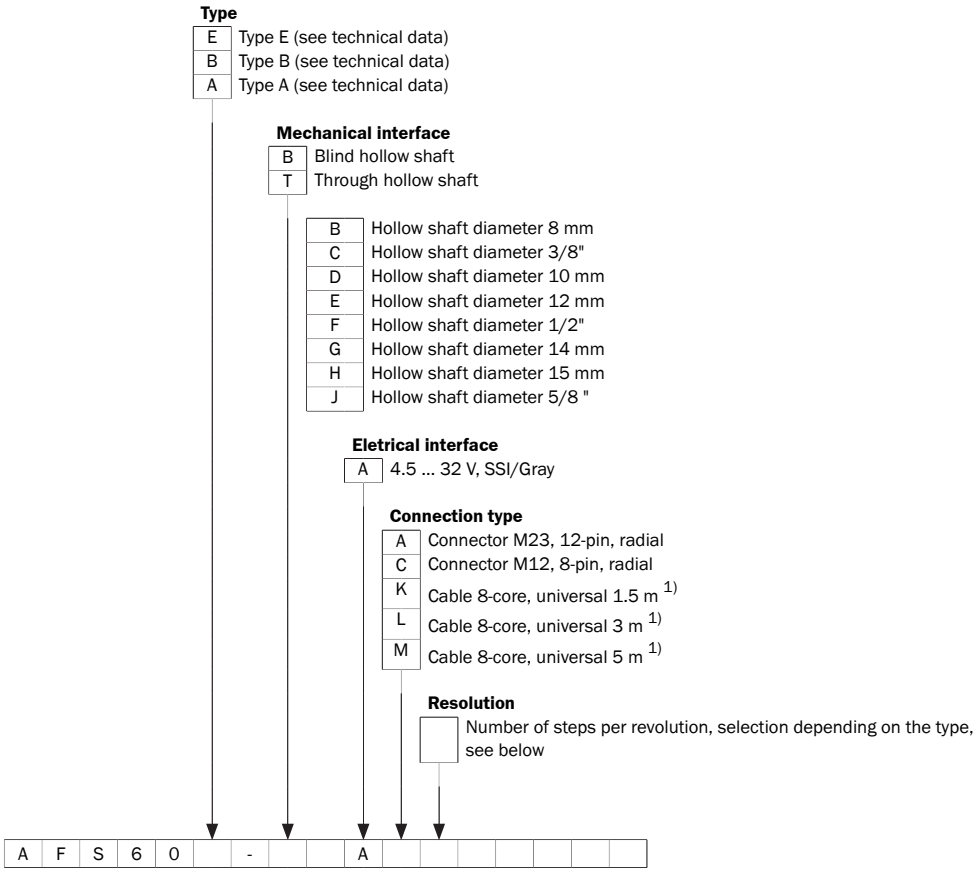
1) Number of steps of 2 to 262144 freely programmable by customer. Factory-programmed to Type B: Type A: 262144.

2) The universal cable outlet is positioned in such a way, that it is possible to lay the cable in a radial or axial direction without kniking it.



1) Number of steps of 2 to 262144 freely programmable by customer. Factory-programmed to Type B: Type A: 262144.

2) The universal cable outlet is positioned in such a way, that it is possible to lay the cable in a radial or axial direction without kniking it.



1) The universal cable outlet is positioned in such a way, that it is possible to lay the cable in a radial or axial direction without kniking it.

Number of lines per revolution

Type E

000256	8 Bit	001024	10 Bit	004096	12 Bit
000512	9 Bit	002048	11 Bit		

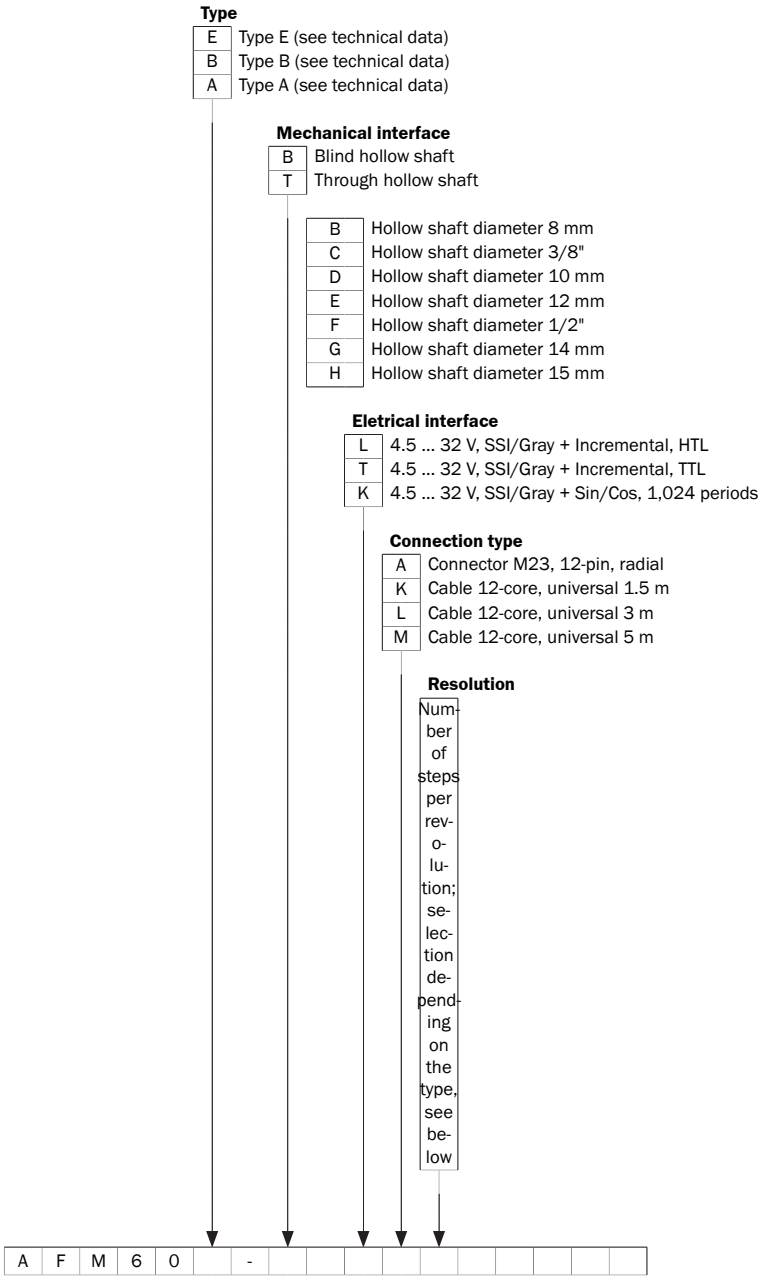
Type B

000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit		

Type A

000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit	065536	16 Bit

131072	17 Bit
262144	18 Bit



Number of lines per revolution x 4096 (12 Bit), number of incremental lines in brackets

Type E

000256	8 Bit (64)	001024	10 Bit (256)	004096	12 Bit (1024)
000512	9 Bit (128)	002048	11 Bit (512)		

Type B

000256	8 Bit (64)	002048	11 Bit (512)	016384	14 Bit (4096)
000512	9 Bit (128)	004096	12 Bit (1024)	032768	15 Bit (8192)
001024	10 Bit (256)	008192	13 Bit (2048)		

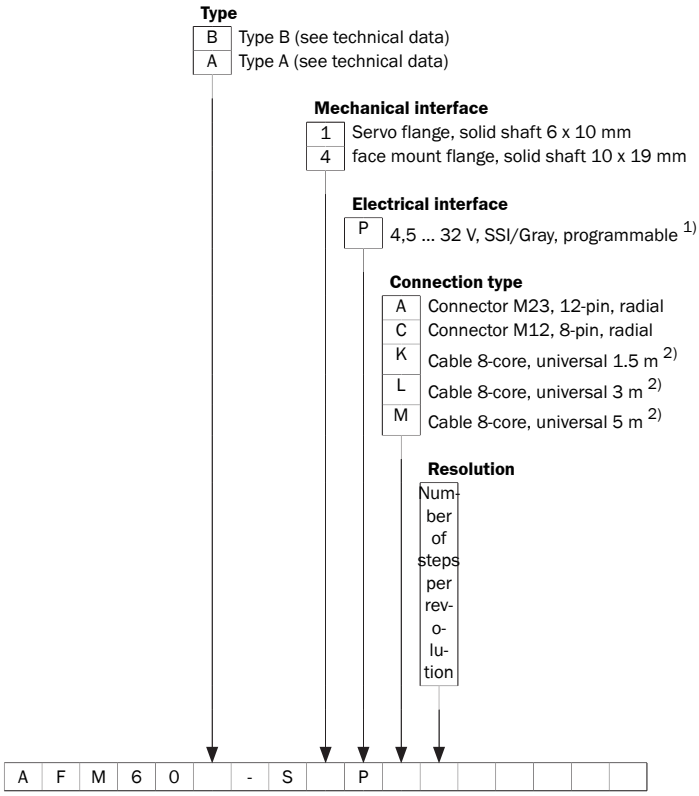
Type A

000256	8 Bit (64)
000512	9 Bit (128)
001024	10 Bit (256)

002048	11 Bit (512)
004096	12 Bit (1024)
008192	13 Bit (2048)

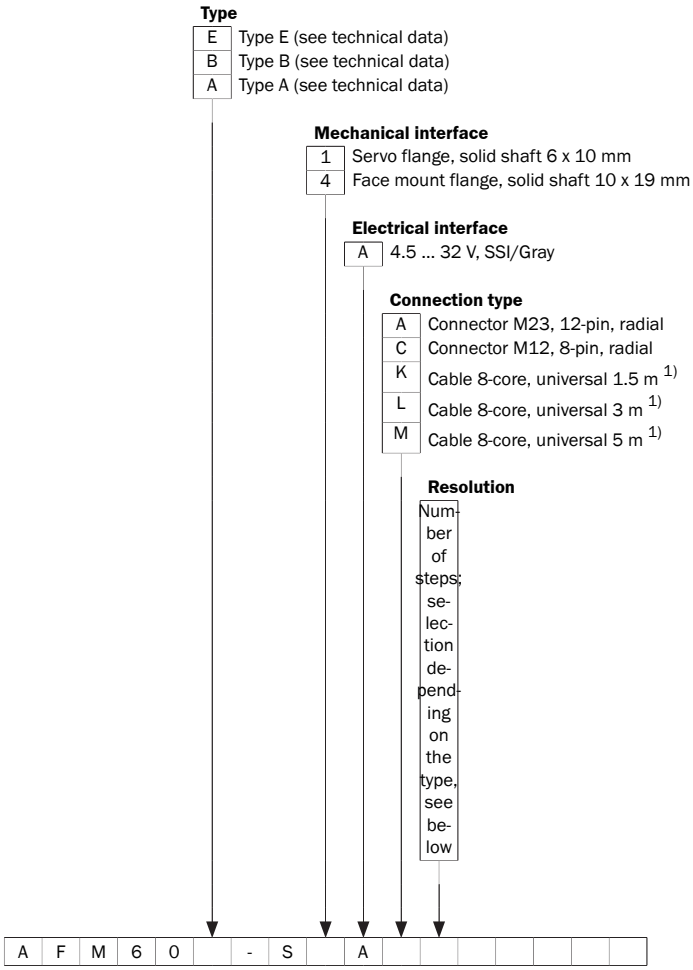
016384	14 Bit (4096)
032768	15 Bit (8192)
065536	16 Bit (16384)

131072	17 Bit (32768)
262144	18 Bit (65536)



1) Number of steps of 2 to 262144 freely programmable by customer. Factory-programmed to Type B: Type A: 262144.

2) The universal cable outlet is positioned in such a way, that it is possible to lay the cable in a radial or axial direction without kniking it.



1) The universal cable outlet is positioned in such a way, that it is possible to lay the cable in a radial or axial direction without kniking it.

Number of lines per revolution

Type E

000256	8 Bit	001024	10 Bit	004096	12 Bit
000512	9 Bit	002048	11 Bit		

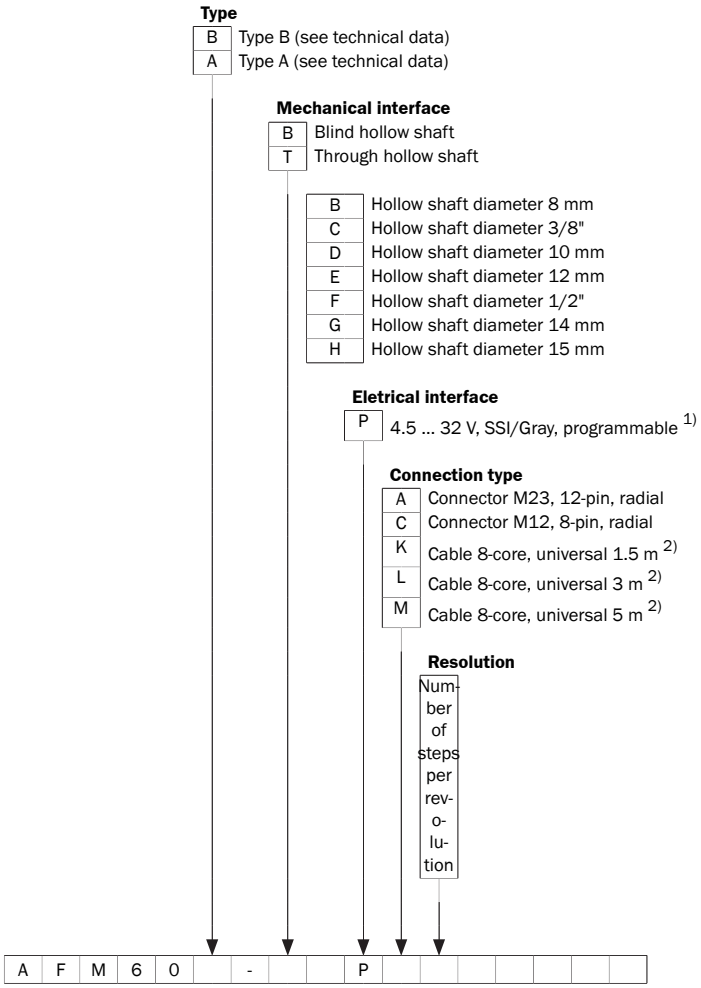
Type B

000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit		

Type A

000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit	065536	16 Bit

131072	17 Bit
262144	18 Bit



1) Number of steps of 256 (8 Bit) to 262144 (18 Bit) freely programmable by customer. Factory-programmed to Type B: Type A: 262144.

2) The universal cable outlet is positioned in such a way, that it is possible to lay the cable in a radial or axial direction without kniking it.

Type

E	Type E (see technical data)
B	Type B (see technical data)
A	Type A (see technical data)

Mechanical interface

B	Blind hollow shaft
T	Through hollow shaft

B Hollow shaft diameter 8 mm

C	Hollow shaft diameter 3/8"
D	Hollow shaft diameter 10 mm
E	Hollow shaft diameter 12 mm
F	Hollow shaft diameter 1/2"
G	Hollow shaft diameter 14 mm
H	Hollow shaft diameter 15 mm

Eletrical interface

A	4.5 ... 32 V, SSI/Gray

Connection type

A	Connector M23, 12-pin, radial
C	Connector M12, 8-pin, radial
K	Cable 8-core, universal 1.5 m [1)]
L	Cable 8-core, universal 3 m [1)]
M	Cable 8-core, universal 5 m [1)]

Resolution

Number of steps per revolution; selection depending

Number of lines per revolution x 4096 (12 Bit)

Type E

000256	8 Bit	001024	10 Bit	004096	12 Bit
000512	9 Bit	002048	11 Bit		

Type B

000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit		

Type A

000256	8 Bit	002048	11 Bit	016384	14 Bit
000512	9 Bit	004096	12 Bit	032768	15 Bit
001024	10 Bit	008192	13 Bit	065536	16 Bit

131072	17 Bit
262144	18 Bit