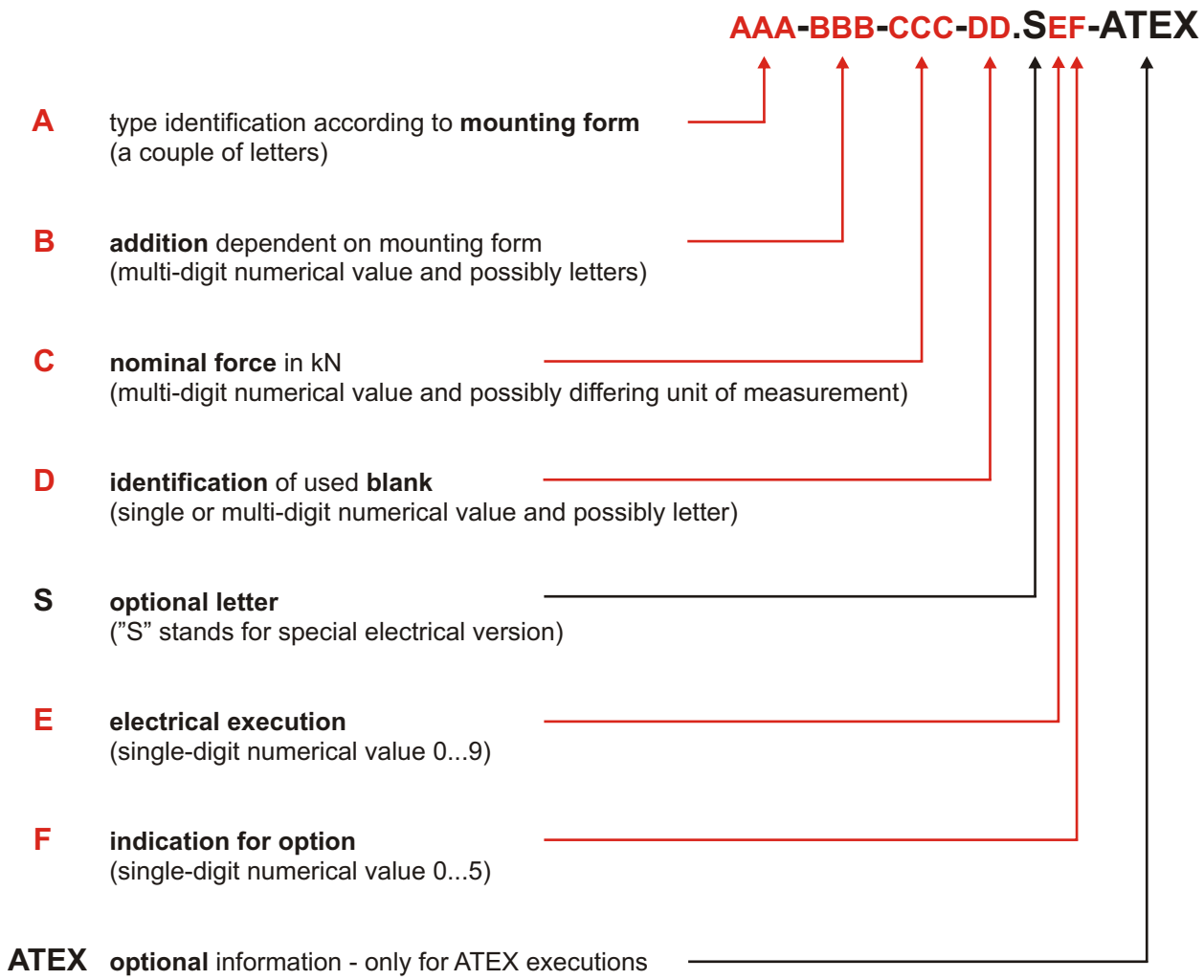
Force Transducer Nomenclature

VELOMAT MESSELEKTRONIK GmbH

key for force transducer identification

according to VELOMAT standard:



A type identification according to **mounting form**
(a couple of letters)

B **addition** dependent on mounting form
(multi-digit numerical value and possibly letters)

C **nominal force** in kN
(multi-digit numerical value and possibly differing unit of measurement)

D **identification** of used **blank**
(single or multi-digit numerical value and possibly letter)

S **optional letter**
(”S” stands for special electrical version)

E **electrical execution**
(single-digit numerical value 0...9)

F **indication for option**
(single-digit numerical value 0...5)

ATEX **optional** information - only for ATEX executions

You can find the key to the variable **A...F** on following pages.

Customised identifications can deviate from it!

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key for variables

A type identification according to **mounting form**
(a couple of letters)

type identification	**mounting form family**
ZKA	tension load cells-threaded rod
KWZ	tension load cells-plate load cell
ZKAG	tension load cell-joint head
SKA / BFS / LBA-120	shear force transducer
DSKA	shear force transducer-twin
SLS	shear force transducer-disc
SLR	shear force transducer-ring
SB / SKL	shear force transducer-load pin
BKA	bending force transducer
LBA-160	bending force transducer-rope
PBB	bending force transducer-parallel
DPBB	bending force transducer-twin parallel
DA / DKA	strain link transducer
DZA	tension compression load cell
DMA	compression load cell
SZ	compressible cylinder

You find the compendium of application on the Internet under
www.velomat.de
menu item “Products” and “force transducers / load cells”.

B **addition** dependent on mounting form
(multi-digit numerical value and possibly letters)
- without letter: blank body made of steel
- letter “A”: blank body made of aluminium
- letter “D”: blank body mechanical redundant (twin)
- letter “R”; ”S”; “(S)”; “V” or “Z”: blank body each in extra special forms

C **nominal force** in kN
(multi-digit numerical value and possibly differing unit of measurement)
- differing specification in N, kg or tons possible (customer request)

D **identification** of used **blank**
(single or multi-digit numerical value and possibly letter)
- numerical value identifies mechanical execution of blank dependent on mounting form, additional entry and nominal force design

S **optional letter**
(”S” stands for special electrical version)
- using of special amplifier calibration (zero, nominal force or final value)
- using of special amplifier

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key for variables

E **electrical execution**
(single-digit numerical value 0...9)
0 = without amplifier

1 = one amplifier	1...9 mA	integrated into the sensor
2 = one amplifier	1...9 mA	external in an extra box
3 = two amplifier	1...9 mA	integrated into the sensor
4 = two amplifier	1...9 mA	external in an extra box
5 = one amplifier	4...20 mA	integrated into the sensor
6 = one amplifier	4...20 mA	external in an extra box
7 = two amplifier	4...20 mA	integrated into the sensor
8 = two amplifier	4...20 mA	external in an extra box
9 = one amplifer	CAN - BUS	external in an extra box

F **indication for option**
(single-digit numerical value 0...5)
0 = without special option
1 = calibration tolerance reduced
3 = temperature compensation in the zero
5 = calibration tolerance reduced and temperature compensation in the zero

ATEX **optional** information - only for ATEX executions

identification examples:

DZA-24A-0,1-4.S60

DZA	tension compression load cell Z-shape
24A	24 mm design size, made of aluminium
0,1	mechanical designed for 100 N nominal force
4	4th blank execution
S	special amplifier calibration (e.g. zero = 12 mA für tension and compression)
6	one amplifier 4...20 mA; external in an extra box
0	without option

SKA-40-4t-1.53

SKA	shear force transducer
40	40 mm design size, made of steel
4t	mechanical designed for 4 tons nominal force
1	1st blank execution
5	one integrated amplifier 4...20 mA
3	with temperature compensation in the zero

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