





The KS105.9 position viewer is an instrument that can automatically or manually control movements.

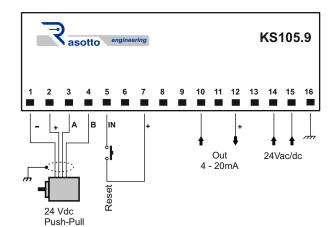
It supplies a 4 - 20mA output signal whose value is proportional to the displayed position value that is linked to a previously set full scale value. This instrument is equipped with opto-isolated inputs in PNP version. Data storage takes place on internal Eeprom memory.

The reading reset can be done by pressing together the arrow keys on the front panel or remotely after having brought the signal on the instrument terminal board as indicated on the connection diagram.

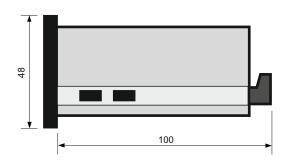
Technical features

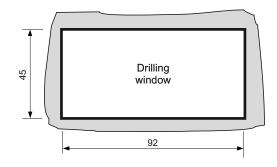
Power supply	24Vac/dc +/- 5 %
Absorption	6 VA nominal
Display	6 digits H= 13mm
Full scale max value	from -99999 to 999999 f.s.
Resolution	+/- 1 digit on f.s.
Count frequency	2100 Hz reading 4 fronts
Analog output	4 - 20mA
Storage conditions	-25 +80°C / 2090% R.U. without condensation
Mounting	recessed mounting
Container	Black ABS
Protection degree	IP30

I features Electrical connections



Dimensions











DSSTech Srl

Sede legale: via dell'Artigianato 3 - 36034 - Malo (VI) - Italy Tel. +390445637541

E-mail: info@dsstech.it

WEB site: www.dsstechautomation.com
P.I., C.F., N. Reg. Imprese IT04118980244
Capitale sociale: 10.000,00 Euro i.v.





Operation cycle

At power-on, after displaying the product name and the firmware version, the instrument displays the encoder position value and the 4-20mA analog output will be proportional to the encoder position according to the following logic: with displayed value equal to 0 the analogue output will be at 4mA while with the displayed value equal to the full scale value the analogue output will be 20mA. To reset the displayed value, press the keys

Programmazione parametri tecnici

To enter programming press the F key, the message PASS appears, press
and using the keys enter the password 569, confirm with the key and it will be displa dP
dP represents the decimal point. To change the decimal point position, press the key
and using the keys , put the decimal point in the desired position.
As soon as a key is released, the set DP value will flash; to continue with the programming
press the key and it will be displayed COEFF representing the multiplication coefficient of the encoder pulses.
To change the coefficient value press the key and use the keys to enter the desired coefficient
value. As soon as a key is released, the set coefficient value will flash; to continue
with the programming press the key and it will be displayed POS representing the current position that is
shown on the display. To change the current position value, press the key and using the keys
enter the desired position value. As soon as a key is released, the set position value will flash;
to continue with the programming press the key and it will be displayed F.SCALA representing the full scale
value to which the 20mA analog value will be generated. To change the full scale value press the button
and using the keys enter the desired full scale value. As soon as a key is released, you will see
flashing the set full scale; to continue with the programming press the button and you will return to the programming
beginning that is dP . If you wish to end programming, wait for the display to stop flashing.





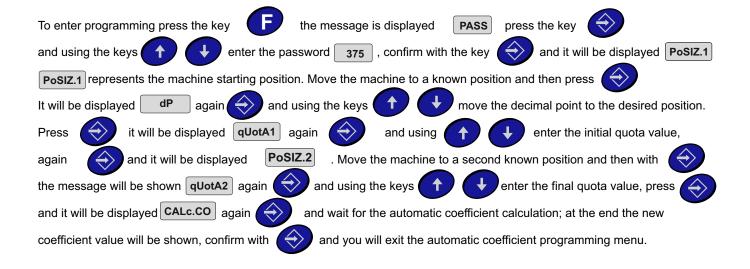








Coefficient automatic calculation



4-20mA analog signals calibration

To enter programming press the key
and using the keys enter the password 105, confirm with the key and it will be displayed tAr4
tAr4 represents the calibration of the 4mA value. To change the 4mA value press the key on the display will appear the
default value calibrated in the laboratory 200 and automatically the analog output will go to 4mA. If you want to recalibrate the
the value of 4mA use the keys ; at every 1unit increase or decrease there will be a variation of about 0.02mA.
If you wish to continue with the calibration of 20mA, press the key and it will be displayed that
represents the calibration of the 20mA value. To change the calibration, press the key and the display will show the
default value calibrated in the laboratory 1000 and automatically the analog output will go to 20mA. If you want to recalibrate
the 20mA value use the keys 🚺 😲 ; at every 1 unit increase or decrease you will have a variation of about 0.02mA.
As soon as a key is released, the set value will flash; to continue programming, press the button
and we will return to the programming beginning ie tAr4 . If instead you want to end the programming wait for the display to
stop flashing.

<u>ATTENTION:</u> at the end of the calibration procedure, the value shown on the display will not correspond to the encoder position. It is necessary to set again the encoder position by entering the TECHNICAL PARAMETERS menu with 569 password and by modifying the POS parameter or by taking the machine to 0 position and pressing reset.



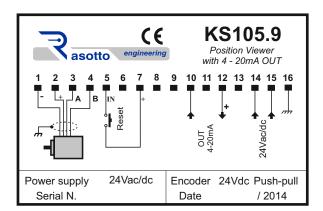


















E-mail: info@dsstech.it

WEB site: www.dsstechautomation.com P.I., C.F., N. Reg. Imprese IT04118980244 Capitale sociale: 10.000,00 Euro i.v.