# Pole [FB32]

| Pole Properties | | | | | | | |
|---|---|---|---|---|---|---|---|
| **General** | | | | | | | |
| **Name** | Pole | **Number** | 32 | **Type** | FB | **Language** | SCL |
| **Numbering** | Automatic | | | | | | |
| **Information** | | | | | | | |
| **Title** | | **Author** | | **Comment** | | **Family** | |
| **Version** | 0.1 | **User-defined ID** | | | | | |

| Name | Data type | Default value | Retain | Accessible from HMI/OPC UA/Web API | Writable from HMI/OPC UA/Web API | Visible in HMI engineering | Setpoint | Supervision | Comment |
|---|---|---|---|---|---|---|---|---|---|
| Input | | | | | | | | | |
| A | Int | 0 | Non-retain | True | True | True | False | | |
| konec | Bool | false | Non-retain | True | True | True | False | | |
| Output | | | | | | | | | |
| index | USInt | 0 | Non-retain | True | True | True | False | | |
| V0 | Int | 0 | Non-retain | True | True | True | False | | |
| V1 | Int | 0 | Non-retain | True | True | True | False | | |
| V2 | Int | 0 | Non-retain | True | True | True | False | | |
| V3 | Int | 0 | Non-retain | True | True | True | False | | |
| V4 | Int | 0 | Non-retain | True | True | True | False | | |
| V5 | Int | 0 | Non-retain | True | True | True | False | | |
| V6 | Int | 0 | Non-retain | True | True | True | False | | |
| Vysledky | Array[0..6] of Int | | Non-retain | True | True | True | False | | |
| Vysledky[0] | Int | 0 | Non-retain | True | True | True | False | | |
| Vysledky[1] | Int | 0 | Non-retain | True | True | True | False | | |
| Vysledky[2] | Int | 0 | Non-retain | True | True | True | False | | |
| Vysledky[3] | Int | 0 | Non-retain | True | True | True | False | | |
| Vysledky[4] | Int | 0 | Non-retain | True | True | True | False | | |
| Vysledky[5] | Int | 0 | Non-retain | True | True | True | False | | |
| Vysledky[6] | Int | 0 | Non-retain | True | True | True | False | | |
| casy | Array[0..6] of Time | | Non-retain | True | True | True | False | | |
| casy[0] | Time | T#2S | Non-retain | True | True | True | False | | |
| casy[1] | Time | T#4S | Non-retain | True | True | True | False | | |
| casy[2] | Time | T#5S | Non-retain | True | True | True | False | | |
| casy[3] | Time | T#6S | Non-retain | True | True | True | False | | |
| casy[4] | Time | T#7S | Non-retain | True | True | True | False | | |
| casy[5] | Time | T#8S | Non-retain | True | True | True | False | | |
| casy[6] | Time | T#9S | Non-retain | True | True | True | False | | |
| Error | Bool | false | Non-retain | True | True | True | False | | |
| InOut | | | | | | | | | |
| Static | | | | | | | | | |
| timer | TON_TIME | | Non-retain | True | True | True | False | | |
| PT | Time | T#0ms | Non-retain | True | True | True | False | | |
| ET | Time | T#0ms | Non-retain | True | False | True | False | | |
| IN | Bool | false | Non-retain | True | True | True | False | | |
| Q | Bool | false | Non-retain | True | False | True | False | | |
| Temp | | | | | | | | | |
| Constant | | | | | | | | | |

```
0001 IF NOT #konec THEN
0002   // Start the timer
0003   #timer(IN := TRUE,
0004        PT := #casy[6]);
0005
0006   // Check if the elapsed time has reached the current index time
0007   IF #timer.ET >= #casy[#index] THEN
0008     #index := #index + 1; // Increment index
0009     #Vysledky[#index] := #index;
0010   END_IF;
0011
0012   // Check if all measurements are done
0013   IF #index > 6 THEN
0014     #konec := TRUE; // Set the end flag
0015     #index := 0; // Reset index
0016     #timer.IN := FALSE; // Stop the timer
0017     #Vysledky[#index] := 0;
0018   END_IF;
0019 END_IF;
0020
0021 // Assign array values to specific variables for debugging or display purposes
0022 #V0 := #Vysledky[0];
0023 #V1 := #Vysledky[1];
0024 #V2 := #Vysledky[2];
```

```
0025 #V3 := #Vysledky[3];
0026 #V4 := #Vysledky[4];
0027 #V5 := #Vysledky[5];
0028 #V6 := #Vysledky[6];
0029
0030
0031
```

| Symbol | Address | Type | Comment |
|---|---|---|---|
| #casy[*] | | Time | |
| #casy[6] | | Time | |
| #index | | USInt | |
| #konec | | Bool | |
| #timer | | IEC_Timer | |
| #timer.ET | | Time | |
| #timer.IN | | Bool | |
| #V0 | | Int | |
| #V1 | | Int | |
| #V2 | | Int | |
| #V3 | | Int | |
| #V4 | | Int | |
| #V5 | | Int | |
| #V6 | | Int | |
| #Vysledky[*] | | Int | |
| #Vysledky[0] | | Int | |
| #Vysledky[1] | | Int | |
| #Vysledky[2] | | Int | |
| #Vysledky[3] | | Int | |
| #Vysledky[4] | | Int | |
| #Vysledky[5] | | Int | |
| #Vysledky[6] | | Int | |