



Version: V1.2	Release Date: 2025-06-23
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PT330070	
Vendor ID	780 (0x030c)
Vendor Name	ipf electronic gmbh
Vendor Text	www.ipf-electronic.de
Vendor URL	http://www.ipf.de
Device ID	2183425 (0x215101)
DeviceFamily	PT330070
Features	
Block Parameter	yes
Data Storage	yes
Profile Characteristic	0x0014 (Device Profile: Measuring and Switching Sensor, high resolution, 1 channel), 0x4000 (Common Application Profile: Identification and Diagnosis), 0x800c (Function Class: Sensor control), 0x8011 (Function Class: Teach two point extension), 0x8013 (Function Class: Object detection), 0x8101 (Function Class: Locator)
Supported Access Locks	Parameter: no, Data Storage: no, Local Parameterization: no, Local User Interface: no
Communication	
IO-Link Revision	V1.1
Transmission Rate	230400 bit/s (COM3)
Minimum Cycle Time	0.7 ms
SIO Mode Supported	yes
M-Sequence Capability	PREOPERATE = TYPE_1_V with 8 octets on-request data OPERATE = TYPE_2_V with 2 octets on-request data ISDU supported
Device Variant	
PT330070	
Description	Lasertaster, 0-10V, Push-Pull, Sn: 20-250mm
Product ID	PT330070
Device Icon	
Device Symbol	
Connection Type	M8 connector
- pin 1	brown; L+
- pin 2	white; Other; Analog Out
- pin 3	(light) blue; L-
- pin 4	black; C/Q

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ProcessData id=P_ProcessData

ProcessDataIn "Process Data In" id=PI_ProcessDataIn

bit length: 48
data type: 48-bit Record

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	16	32-bit Integer	-32760 = Out of Range (-), 32760 = Out of Range (+), 32764 = No Data, 0..32000					Measurement Value	
2	8	8-bit Integer						Scale	
3	0	Boolean						SSC1.1	
4	1	Boolean						SSC1.2	
5	2	Boolean						Quality	
6	3	Boolean						Alarm	
Octet 0									
bit offset	47	46	45	44	43	42	41	40	

subindex	1							
element bit	31	30	29	28	27	26	25	24
Octet 1								
bit offset	39	38	37	36	35	34	33	32
subindex	1							
element bit	23	22	21	20	19	18	17	16
Octet 2								
bit offset	31	30	29	28	27	26	25	24
subindex	1							
element bit	15	14	13	12	11	10	9	8
Octet 3								
bit offset	23	22	21	20	19	18	17	16
subindex	1							
element bit	7	6	5	4	3	2	1	0
Octet 4								
bit offset	15	14	13	12	11	10	9	8
subindex	2							
element bit	7	6	5	4	3	2	1	0
Octet 5								
bit offset	7	6	5	4	3	2	1	0
subindex	/////	/////	/////	/////	6	5	4	3

ProcessDataOut "Process Data Out" id=PO_ProcessDataOut

bit length: 1

data type: 1-bit Record

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	Boolean						CSC1/Disable Transmitter	

Octet 0

bit offset	7	6	5	4	3	2	1	0
subindex								1

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Standard Variable "Direct Parameters - Page 1" index=0 id=V_DirectParameters_1

description: Comprises the required parameters defining the communication characteristics and identifiers for device validation.

data type: 128-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	120	8-bit UInteger			ro			Reserved	
2	112	8-bit UInteger			ro			Master Cycle Time	Communication: Current communication cycle duration used by the master. This value defines the process data cycle.
3	104	8-bit UInteger			ro			Min Cycle Time	Communication: Minimum communication cycle duration supported by the device. This value defines the lowest possible process data cycle.
4	96	8-bit UInteger			ro			M-Sequence Capability	Communication: Information on the structure and the supported features of the communication messages.
5	88	8-bit UInteger		17	ro			IO-Link Revision ID	Communication: Identifier for the currently used communication protocol revision.
6	80	8-bit UInteger			ro			Process Data Input Length	Communication: Information on width and features of the process input data (Process Data from Device to Master).
7	72	8-bit UInteger			ro			Process Data Output Length	Communication: Information on width of the process output data (Process Data from Master to Device).
8	64	8-bit UInteger			ro			Vendor ID 1	Identification: Highest octet of the Vendor ID. Combined with the parameter Vendor ID 2, this parameter defines the 16-bit value of the unique Vendor ID as assigned by the IO-Link Community.
9	56	8-bit UInteger			ro			Vendor ID 2	Identification: Lowest octet of the Vendor ID. Combined with the parameter Vendor ID 1, this parameter defines the 16-bit value of the unique Vendor ID as assigned by the IO-Link Community.

10	48	8-bit UInteger			ro		Device ID 1	Identification: Highest octet of the Device ID. Combined with the parameters Device ID 2 and 3, this parameter defines the 24-bit value of the vendor- specific Device ID.
11	40	8-bit UInteger			ro		Device ID 2	Identification: Middle octet of the Device ID. Combined with the parameters Device ID 1 and 3, this parameter defines the 24-bit value of the vendor- specific Device ID.
12	32	8-bit UInteger			ro		Device ID 3	Identification: Lowest octet of the Device ID. Combined with the parameters Device ID 1 and 2, this parameter defines the 24-bit value of the vendor- specific Device ID.
13	24	8-bit UInteger			ro		Reserved	
14	16	8-bit UInteger			ro		Reserved	
15	8	8-bit UInteger			ro		Reserved	
16	0	8-bit UInteger			wo	X	System Command	Application: Command interface for devices without ISDU support. Validity and execution of commands are not confirmed.

octet	0	1	2	3	4	5	6	7
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	1	2	3	4	5	6	7	8
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	9	10	11	12	13	14	15	16
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

Standard Variable "System Command" index=2 id=V_SystemCommand

description: Command interface for applications. A positive acknowledge indicates the complete and correct finalization of the requested function.

data type: 8-bit UInteger

allowed values: 64 = Teach Apply, 65 = Teach SP1, 66 = Teach SP2, 67 = Teach SP1 TP1, 68 = Teach SP1 TP2, 69 = Teach SP2 TP1, 70 = Teach SP2 TP2, 79 = Teach Cancel, 126 = Locator Start, 127 = Locator Stop, 128 = Device Reset, 129 = Application Reset, 130 = Restore Factory Settings, 131 = Back-to-box

access rights: wo

modifies other variables

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Standard Variable "Vendor Name" index=16 id=V_VendorName

description: The vendor name that is assigned to a Vendor ID.

data type: 64-octet String UTF-8

default value: "ipf electronic gmbh"

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47

bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128
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octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Vendor Text" index=17 id=V_VendorText

description: Additional information about the vendor.

data type: 64-octet String UTF-8

default value: "http://www.ipf.de"

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Product Name" index=18 id=V_ProductName

description: Complete product name.

data type: 64-octet String UTF-8

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Product ID" index=19 id=V_ProductID

description: Vendor-specific product or type identification (e.g., item number or model number).

data type: 64-octet String UTF-8

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Product Text" index=20 id=V_ProductText

description: Additional product information for the device.

data type: 64-octet String UTF-8

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Serial Number" index=21 id=V_SerialNumber

description: Unique, vendor-specific identifier of the individual device.

data type: 16-octet String UTF-8

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	8	9	10	11	12	13	14	15
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Hardware Revision" index=22 id=V_HardwareRevision

description: Unique, vendor-specific identifier of the hardware revision of the individual device.

data type: 64-octet String UTF-8

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Firmware Revision" index=23 id=V_FirmwareRevision

description: Unique, vendor-specific identifier of the firmware revision of the individual device.

data type: 64-octet String UTF-8

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55

bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
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octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Application-specific Tag" index=24 id=V_ApplicationSpecificTag

description: Possibility to mark a device with user- or application-specific information.

data type: 32-octet String UTF-8

access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	8	9	10	11	12	13	14	15
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	16	17	18	19	20	21	22	23
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	24	25	26	27	28	29	30	31
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Device Status" index=36 id=V_DeviceStatus

description: Indicator for the current device condition and diagnosis state.

data type: 8-bit UInteger

allowed values: 0 = Device is OK, 1 = Maintenance required, 2 = Out of specification, 3 = Functional check, 4 = Failure

access rights: ro

dynamic

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Standard Variable "Detailed Device Status" index=37 id=V_DetailedDeviceStatus

description: List of all currently pending events in the device.

data type: Array[1] of 3-octet OctetString (subindex access not supported)

access rights: ro

dynamic

octet	0	1	2	
bit offset	23 - 16	15 - 8	7 - 0	
subindex	1	1	1	

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Variable "Function Tag" index=25 id=V_CP_FunctionTag

description: User specified function tag

data type: 32-octet String UTF-8

access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	8	9	10	11	12	13	14	15
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	16	17	18	19	20	21	22	23
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	24	25	26	27	28	29	30	31
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Location Tag" index=26 id=V_CP_LocationTag

description: User specified location tag
data type: 32-octet String UTF-8
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	8	9	10	11	12	13	14	15
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	16	17	18	19	20	21	22	23
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	24	25	26	27	28	29	30	31
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Teach Select" index=58 id=V_SSP_TeachSelect

description: Selects the switching signal channel for which a teach procedure will be applied.
data type: 8-bit UInteger
allowed values: 1 = SSC1.1, 2 = SSC1.2
default value: 1
access rights: rw
excluded from data storage

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "Teach Result" index=59 id=V_SSP_TeachResult

data type: 8-bit Record (subindex access not supported)
access rights: ro
dynamic

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	4-bit UInteger	0 = Idle, 1 = SP1 success, 2 = SP2 success, 3 = SP1, SP2 success, 4 = Wait for command, 5 = Busy, 7 = Error					State	0 - Idle, 1 - SP1 Success, 2 - SP2 Success, 3 - SP12 Success, 4 - Waiting for Command, 5 - Busy, 7 - Error
2	4	Boolean	false = Initial or not ok, true = OK					Flag SP1 TP1	false - Initial or not ok, true - OK
3	5	Boolean	false = Initial or not ok, true = OK					Flag SP1 TP2	false - Initial or not ok, true - OK
4	6	Boolean	false = Initial or not ok, true = OK					Flag SP2 TP1	false - Initial or not ok, true - OK
5	7	Boolean	false = Initial or not ok, true = OK					Flag SP2 TP2	false - Initial or not ok, true - OK

Octet 0

bit offset	7	6	5	4	3	2	1	0
subindex	5	4	3	2		1		
element bit					3	2	1	0

Variable "SSC1.1 Param" index=60 id=V_SSC1_Setpoints

data type: 64-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	32	32-bit Integer						SP1	[mm]
2	0	32-bit Integer						SP2	[mm]

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	1	1	1	1	2	2	2	2

element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0
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Variable "SSC1.1 Config" index=61 id=V_SSC1_Config

description: Switching Signal Channel Configuration

data type: 48-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	40	8-bit UInteger	0 = High active, 1 = Low active					Logic	Selects the SSC logic: High active, Low active
2	32	8-bit UInteger	0 = Deactivated, 1 = Single point, 2 = Window					Mode	Selects the SSC switch mode: Deactivated, Single point, Window
3	0	32-bit Integer						Hyst	Sets the hysteresis: only 0 is supported (vendor specific default settings)

octet	0	1	2	3	4	5	
bit offset	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	2	3	3	3	3	
element bit	7 - 0	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "SSC1.2 Param" index=62 id=V_SSC2_Setpoints

data type: 64-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	32	32-bit Integer						SP1	[mm]
2	0	32-bit Integer						SP2	[mm]

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "SSC1.2 Config" index=63 id=V_SSC2_Config

description: Switching Signal Channel Configuration

data type: 48-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	40	8-bit UInteger	0 = High active, 1 = Low active					Logic	Selects the SSC logic: High active, Low active
2	32	8-bit UInteger	0 = Deactivated, 1 = Single point, 2 = Window					Mode	Selects the SSC switch mode: Deactivated, Single point, Window
3	0	32-bit Integer						Hyst	Sets the hysteresis: only 0 is supported (vendor specific default settings)

octet	0	1	2	3	4	5	
bit offset	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	2	3	3	3	3	
element bit	7 - 0	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "Quality" index=64 id=V_QualityValue

description: Quality value settings

data type: 16-bit Record

access rights: ro

dynamic

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	16-bit						Quality	Represents the excess gain

	UInteger						Value	ratio in %
--	----------	--	--	--	--	--	-------	------------

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	1	1	
element bit	15 - 8	7 - 0	

Variable "Quality Bit" index=65 id=V_QualityBitThreshold

description: Quality bit settings

data type: 16-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	16-bit UInteger						Quality Bit Threshold	Sets the threshold for the quality bit which is mapped to the input process data and used for the LED weak signal indication

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	1	1	
element bit	15 - 8	7 - 0	

Variable "Unit Selection" index=74 id=V_UnitSelection

data type: 16-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	16-bit UInteger	1000 = Kelvin, 1001 = Celsius, 1002 = Fahrenheit					Temperature	Selection between temperature units

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	1	1	
element bit	15 - 8	7 - 0	

Variable "Operation Modes" index=77 id=V_OperationModes

data type: 8-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	8-bit UInteger	0 = High Speed, 1 = Standard, 3 = High Accuracy, 7 = Raw	1				Measurement Mode	Selection between High Speed, Standard, High Accuracy and Raw

octet	0		
bit offset	7 - 0		
subindex	1		
element bit	7 - 0		

Variable "DI/DO Settings" index=78 id=V_InputOutputSettings

data type: 24-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	16	8-bit UInteger	1 = Push-Pull Output					Output Circuit	Only Push-Pull supported
2	0	16-bit UInteger	0 = None, 100 = SSC1.1 - State, 101 = Alarm - State, 102					Output Mode	Selection between SSC1.1, Alarm and Quality Signal

				= Quality - State						source
--	--	--	--	-------------------	--	--	--	--	--	--------

octet	0	1	2	
bit offset	23 - 16	15 - 8	7 - 0	
subindex	1	2	2	
element bit	7 - 0	15 - 8	7 - 0	

Variable "LED Settings" index=79 id=V_LedSettings

data type: 24-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	16	8-bit UInteger	0 = Off, 1 = On					Green Mode	On: Power ON(short circuit flashing); Off: Deactivated
12	8	8-bit UInteger	0 = Off, 1 = On, 2 = Inverted					Yellow Mode	On: State of Pin 4(weak signal flashing); Inverted: Inverted behaviour; Off: Deactivated
22	0	8-bit UInteger	0 = Off, 1 = On					Blue Mode	On: qTeach active; Off: Deactivated

octet	0	1	2	
bit offset	23 - 16	15 - 8	7 - 0	
subindex	2	12	22	
element bit	7 - 0	7 - 0	7 - 0	

Variable "Teach Lock Settings" index=80 id=V_TeachLockSettings

description: Teach lock settings

data type: 8-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	8-bit UInteger						Teach Lock Time	Time until qTeach is locked; If 0 qTeach never locks; If 0xFF qTeach always OFF

octet	0	
bit offset	7 - 0	
subindex	1	
element bit	7 - 0	

Variable "Teach Point Offset" index=99 id=V_TeachPointOffset

description: Teach Point Offset

data type: 64-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	32	32-bit Integer						Teach point offset for SSC1.1	Used in single point mode to determine SP1 based on the teach-in situation
11	0	32-bit Integer						Teach point offset for SSC1.2	Used in single point mode to determine SP1 based on the teach-in situation

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	1	1	1	1	11	11	11	11
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Teach Mode Settings" index=100 id=V_TeachModeSettings

description: Teach Mode Settings

data type: 8-bit Record

access rights: rw

subindex	bit	data type	allowed values	default	acc.	mod. other	excl. from	name	description
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	offset		value	restr.	var.	DS		
1	0	8-bit UInteger	0 = XPert Static, 1 = XPress Static, 255 = Off				Teach Mode	Teach Mode Procedure

octet	0	
bit offset	7 - 0	
subindex	1	
element bit	7 - 0	

Variable "Analog Setting" index=116 id=V_AnalogSettings

description: Analog Setting as output type and output value in an alarm situation

data type: 8-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
4	0	8-bit UInteger	1 = Minimum, 2 = Maximum, 4 = Last Valid					Value after Dropout	Selection of the analog output behaviour after invalid measurements.

octet	0	
bit offset	7 - 0	
subindex	4	
element bit	7 - 0	

Variable "Release Delay" index=120 id=V_SSC_ReleaseDelay

data type: 64-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	32	32-bit UInteger						SSC1.1 Time	Sets the SSC's release delay time
12	0	32-bit UInteger						SSC1.2 Time	Sets the SSC's release delay time

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	2	2	2	2	12	12	12	12
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Response Delay" index=121 id=V_SSC_ResponseDelay

data type: 64-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	32	32-bit UInteger						SSC1.1 Time	Sets the SSC's response delay time
12	0	32-bit UInteger						SSC1.2 Time	Sets the SSC's response delay time

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	2	2	2	2	12	12	12	12
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Minimum Pulse Duration" index=122 id=V_SSC_MinPulseDuration

data type: 64-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	32	32-bit						SSC1.1	Sets the SSC's minimal pulse

12	0	UInteger 32-bit UInteger						Time SSC1.2 Time	duration time Sets the SSC's minimal pulse duration time
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octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	2	2	2	2	12	12	12	12
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Process Value Disruption Filter" index=164 id=V_PV_DisruptionFilter

description: Disruption filter inhibits short timed measurement value changes over a given time

data type: 32-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	0	32-bit UInteger		0				PV1 Time	Time span after an invalid measurement in which the outputs maintains there last valid values.

octet	0	1	2	3	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	2	2	2	2	
element bit	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "Analog Output Scaler" index=202 id=V_Output_2PointScaler

description: Allows to scale an input value to the output

data type: 128-bit Record

access rights: rw

dynamic

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	96	32-bit Integer						Corner 1 Input	Corner 1 input process value
3	64	32-bit Integer						Corner 1 Output	Corner 1 output analog value
4	32	32-bit Integer						Corner 2 Input	Corner 2 input process value
5	0	32-bit Integer						Corner 2 Output	Corner 2 output analog value

octet	0	1	2	3	4	5	6	7
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	2	2	2	2	3	3	3	3
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	4	4	4	4	5	5	5	5
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Process Value Filter Mode" index=207 id=V_PV_FilterMode

description: Filter Mode which defines the characteristics of the low pass filter

data type: 8-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	8-bit UInteger	1 = Moving Average, 2 = Bessel, 3 = Butterworth	1				PV1 Mode	Selection between Moving Average, Bessel and Butterworth

octet	0	
bit offset	7 - 0	
subindex	1	
element bit	7 - 0	

Variable "Device Temperature" index=208 id=V_DeviceTemperature

data type: 32-bit Record
access rights: ro
dynamic

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	Float32						Current	Current Device Temperature

octet	0	1	2	3	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	1	1	1	
element bit	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "Vendor Commands" index=1000 id=V_VendorSpecificCommands

description: Vendor specific commands
data type: 8-bit UInteger
allowed values: 84 = Teach Analog Corner 1., 85 = Teach Analog Corner 2.
access rights: wo
modifies other variables

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Variable "MDC1 Descriptor" index=16512 id=V_MdcDescriptor

data type: 88-bit Record
access rights: ro

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	56	32-bit Integer						Lower Limit	Lower limit value
2	24	32-bit Integer						Upper Limit	Upper limit value
3	8	16-bit UInteger	1010 = Meter, 1997 = None					Unit code	Unit code value
4	0	8-bit Integer						Scale	Scale code value

octet	0	1	2	3	4	5	6	7
bit offset	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	
bit offset	23 - 16	15 - 8	7 - 0	
subindex	3	3	4	
element bit	15 - 8	7 - 0	7 - 0	

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Events

Code	Type	Name	Description
20480 (0x5000)	Error	Device hardware fault	Exchange device

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Process Data Formatting

Formatting for Process Data id=PI_ProcessDataIn
Subindex 1: * 0.1 mm Dec.1
Subindex 2:

Subindex 3:
 Subindex 4:
 Subindex 5:
 Subindex 6:

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 V_ProductName
 V_ProductText
 V_ProductID
 V_SerialNumber
 V_HardwareRevision
 V_FirmwareRevision
 V_ApplicationSpecificTag
 V_CP_FunctionTag
 V_CP_LocationTag
 V_SystemCommand, Button:=126
 Description=Start LED indication to localize the sensor
 V_SystemCommand, Button:=127
 Description=Stop LED indication to localize the sensor

Maintenance Menus

Identification Menu

V_VendorName
 V_VendorText
 V_ProductName
 V_ProductText
 V_ProductID
 V_SerialNumber
 V_HardwareRevision
 V_FirmwareRevision
 V_ApplicationSpecificTag
 V_CP_FunctionTag
 V_CP_LocationTag
 V_SystemCommand, Button:=126
 Description=Start LED indication to localize the sensor
 V_SystemCommand, Button:=127
 Description=Stop LED indication to localize the sensor

Parameters Menu

System Commands

V_SystemCommand, Button:=128
 Description=A warm start is triggered and the device will be set to an initial state. The communication will be interrupted by the device and then reinitiated by the master.
 V_SystemCommand, Button:=129
 Description=The parameter of the technology-specific application are set to default values. Identification parameter remain unchanged. An upload to the data storage of the master will be executed, if activated in the port configuration of the master.
 V_SystemCommand, Button:=130
 Description=The parameter of the device are reset to factory settings. Note: A download of the data storage may be executed on the next power cycle and overwrite the factory default settings!
 V_SystemCommand, Button:=131
 Description=The parameter of the device are set to factory default values and communication will be inhibited until the next power cycle.
 Note: Directly detach the device from the master port!

Measuring Data Channel 1

V_MdcDescriptor

Switching Signal Channel 1.1

V_SSC1_Setpoints.SP1 * 0.1 mm, rw Dec.1
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 V_SSC1_Config

Timefilter

V_SSC_ReleaseDelay.SSC1.1 Time ms, rw
 V_SSC_ResponseDelay.SSC1.1 Time ms, rw

V_SSC_MinPulseDuration.SSC1.1 Time ms, rw

Switching Signal Channel 1.2

V_SSC2_Setpoints.SP1 * 0.1 mm, rw Dec.1

V_SSC2_Setpoints.SP2 * 0.1 mm, rw Dec.1

V_SSC2_Config

Timefilter

V_SSC_ReleaseDelay.SSC1.2 Time ms, rw

V_SSC_ResponseDelay.SSC1.2 Time ms, rw
--

V_SSC_MinPulseDuration.SSC1.2 Time ms, rw

Teach

Teach Single Value

V_SSP_TeachSelect

V_SystemCommand, Button:=65

Description=Determine setpoint 1 in an single teach procedure.
--

V_SystemCommand, Button:=66

Description=Determine setpoint 2 in an single teach procedure.
--

V_SSP_TeachResult.State

Teach Two Value

V_SSP_TeachSelect

V_SystemCommand, Button:=67

Description=Determine teachpoint 1 for setpoint 1.
--

V_SystemCommand, Button:=68

Description=Determine teachpoint 2 for setpoint 1.
--

V_SystemCommand, Button:=69

Description=Determine teachpoint 1 for setpoint 2.
--

V_SystemCommand, Button:=70

Description=Determine teachpoint 2 for setpoint 2.
--

V_SystemCommand, Button:=64

Description=Calculate and apply setpoint.

V_SystemCommand, Button:=79

Description=Cancel ongoing teach procedure.

V_SSP_TeachResult.Flag SP1 TP1

V_SSP_TeachResult.Flag SP1 TP2

V_SSP_TeachResult.Flag SP2 TP1

V_SSP_TeachResult.Flag SP2 TP2

V_SSP_TeachResult.State

Teach Point Offset

V_TeachPointOffset.Teach point offset for SSC1.1 %
--

V_TeachPointOffset.Teach point offset for SSC1.2 %
--

Teach Analog

V_VendorSpecificCommands, Button:=84

Description=Teach distance for corner point 1

V_VendorSpecificCommands, Button:=85

Description=Teach distance for corner point 2

If V_OperationModes.Measurement Mode = 7:

Signal Processing

V_OperationModes.Measurement Mode

V_PV_DisruptionFilter.PV1 Time ms

If V_OperationModes.Measurement Mode = 0:

Signal Processing

V_OperationModes.Measurement Mode

V_PV_DisruptionFilter.PV1 Time ms

V_PV_FilterMode

If V_OperationModes.Measurement Mode = 1:

Signal Processing

V_OperationModes.Measurement Mode

V_PV_DisruptionFilter.PV1 Time ms

V_PV_FilterMode

If V_OperationModes.Measurement Mode = 3:

Signal Processing

V_OperationModes.Measurement Mode

V_PV_DisruptionFilter.PV1 Time ms

V_PV_FilterMode

Input/Output Settings

V_InputOutputSettings

Analog Output

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V_SSC2_Setpoints.SP1 * 0.1 mm, rw Dec.1
V_SSC2_Setpoints.SP2 * 0.1 mm, rw Dec.1
V_SSC2_Config
Timefilter
V_SSC_ReleaseDelay.SSC1.2 Time ms, rw
V_SSC_ResponseDelay.SSC1.2 Time ms, rw
V_SSC_MinPulseDuration.SSC1.2 Time ms, rw

Teach**Teach Single Value**

V_SSP_TeachSelect
V_SystemCommand, Button:=65 Description=Determine setpoint 1 in an single teach procedure.
V_SystemCommand, Button:=66 Description=Determine setpoint 2 in an single teach procedure.
V_SSP_TeachResult.State

Teach Two Value

V_SSP_TeachSelect
V_SystemCommand, Button:=67 Description=Determine teachpoint 1 for setpoint 1.
V_SystemCommand, Button:=68 Description=Determine teachpoint 2 for setpoint 1.
V_SystemCommand, Button:=69 Description=Determine teachpoint 1 for setpoint 2.
V_SystemCommand, Button:=70 Description=Determine teachpoint 2 for setpoint 2.
V_SystemCommand, Button:=64 Description=Calculate and apply setpoint.
V_SystemCommand, Button:=79 Description=Cancel ongoing teach procedure.
V_SSP_TeachResult.Flag SP1 TP1
V_SSP_TeachResult.Flag SP1 TP2
V_SSP_TeachResult.Flag SP2 TP1
V_SSP_TeachResult.Flag SP2 TP2
V_SSP_TeachResult.State

Teach Point Offset

V_TeachPointOffset.Teach point offset for SSC1.1 %
V_TeachPointOffset.Teach point offset for SSC1.2 %

Teach Analog

V_VendorSpecificCommands, Button:=84 Description=Teach distance for corner point 1
V_VendorSpecificCommands, Button:=85 Description=Teach distance for corner point 2

If V_OperationModes.Measurement Mode = 7:

Signal Processing

V_OperationModes.Measurement Mode
V_PV_DisruptionFilter.PV1 Time ms

If V_OperationModes.Measurement Mode = 0:

Signal Processing

V_OperationModes.Measurement Mode
V_PV_DisruptionFilter.PV1 Time ms
V_PV_FilterMode

If V_OperationModes.Measurement Mode = 1:

Signal Processing

V_OperationModes.Measurement Mode
V_PV_DisruptionFilter.PV1 Time ms
V_PV_FilterMode

If V_OperationModes.Measurement Mode = 3:

Signal Processing

V_OperationModes.Measurement Mode
V_PV_DisruptionFilter.PV1 Time ms
V_PV_FilterMode

Input/Output Settings

V_InputOutputSettings

Analog Output

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V_Output_2PointScaler.Corner 1 Output * 0.1 V, Dec.1

V_Output_2PointScaler.Corner 2 Input * 0.1 mm, Dec.1	
V_Output_2PointScaler.Corner 2 Output * 0.1 V, Dec.1	
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