




Version: V1.0

Release Date: 2019-12-09

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ORQ80571		
Vendor ID	780 (0x030c)	
Vendor Name	ipf electronic gmbh	
Vendor Text	www.ipf.de	
Vendor URL	http://www.ipf.de	
Device ID	8074753 (7B3601)	
DeviceFamily	ORQ805xx	
Features		
Block Parameter	yes	
Data Storage	yes	
Profile Characteristic	0x0001 (Device Profile: Smart Sensor), 0x4000 (Common Application Profile: ?Unknown?), 0x8001 (Function Class: Binary Data Channel), 0x8004 (Function Class: Teach-In Commands)	
Supported Access Locks	Parameter: no, Data Storage: yes, Local Parameterization: no, Local User Interface: no	
Communication		
IO-Link Revision	V1.1	
Transmission Rate	230400 bit/s (COM3)	
Minimum Cycle Time	0.6 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	ORQ80571	
Description	Photoelectric sensor, retro-reflective, Cable/Connector M8	
Product ID	ORQ80571	
Device Icon		
Device Symbol		
Connection Type	M8 connector	
- pin 1	brown; L+	
- pin 2	white; Other; Teach	
- 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: 32
data type: 32-bit Record

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	16	16-bit Integer						Measurement Value	
2	8	8-bit Integer						Scale	
3	7	Boolean						Not used	
5	5	Boolean						SSC4/Counter	
7	3	Boolean						Alarm	
8	2	Boolean						Quality	
10	0	Boolean						SSC1/Intensity	

Octet 0

bit offset	31	30	29	28	27	26	25	24
subindex	1							
element bit	15	14	13	12	11	10	9	8

Octet 1

bit offset	23	22	21	20	19	18	17	16
subindex	1							
element bit	7	6	5	4	3	2	1	0

Octet 2

bit offset	15	14	13	12	11	10	9	8
subindex	2							
element bit	7	6	5	4	3	2	1	0

Octet 3

bit offset	7	6	5	4	3	2	1	0
subindex	3	/////	5	/////	7	8	/////	10

ProcessDataOut "Process Data Out" id=PO_ProcessDataOut

bit length: 2
data type: 2-bit Record

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	1	Boolean						Find Me	
2	0	Boolean						Disable Transmit LED	

Octet 0

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

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

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	

3	104	8-bit UInteger			ro		Min Cycle Time	
4	96	8-bit UInteger			ro		M- Sequence Capability	
5	88	8-bit UInteger		17	ro		IO-Link Version ID	
6	80	8-bit UInteger			ro		Process Data Input Length	
7	72	8-bit UInteger			ro		Process Data Output Length	
8	64	8-bit UInteger			ro		Vendor ID 1	
9	56	8-bit UInteger			ro		Vendor ID 2	
10	48	8-bit UInteger			ro		Device ID 1	
11	40	8-bit UInteger			ro		Device ID 2	
12	32	8-bit UInteger			ro		Device ID 3	
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	64 = Teach Apply, 65 = Teach SP1, 67 = Teach SP1 TP1, 68 = Teach SP1 TP2, 71 = Dynamic Teach Start, 72 = Dynamic Teach Stop, 79 = Teach Cancel, 130 = Restore Factory Settings		wo	X	Standard Command	

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 "Direct Parameters 2" index=1 id=V_DirectParameters_2

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						Device Specific Parameter 1	
2	112	8-bit UInteger						Device Specific Parameter 2	
3	104	8-bit UInteger						Device Specific Parameter 3	
4	96	8-bit UInteger						Device Specific Parameter 4	
5	88	8-bit UInteger						Device Specific Parameter 5	
6	80	8-bit UInteger						Device Specific Parameter 6	
7	72	8-bit UInteger						Device Specific Parameter 7	
8	64	8-bit UInteger						Device Specific Parameter 8	
9	56	8-bit UInteger						Device Specific Parameter 9	

10	48	8-bit UInteger						Device Specific Parameter 10
11	40	8-bit UInteger						Device Specific Parameter 11
12	32	8-bit UInteger						Device Specific Parameter 12
13	24	8-bit UInteger						Device Specific Parameter 13
14	16	8-bit UInteger						Device Specific Parameter 14
15	8	8-bit UInteger						Device Specific Parameter 15
16	0	8-bit UInteger						Device Specific Parameter 16

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 "Standard Command" index=2 id=V_SystemCommand

data type: 8-bit UInteger

allowed values: 64 = Teach Apply, 65 = Teach SP1, 67 = Teach SP1 TP1, 68 = Teach SP1 TP2, 71 = Dynamic Teach Start, 72 = Dynamic Teach Stop, 79 = Teach Cancel, 130 = Restore Factory Settings

access rights: wo

modifies other variables

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

Standard Variable "Device Access Locks" index=12 id=V_DeviceAccessLocks

data type: 16-bit Record (subindex access not supported)

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	Boolean						Parameter (write) Access Lock	
2	1	Boolean						Data Storage Lock	
3	2	Boolean						Local Parameterization Lock	
4	3	Boolean						Local User Interface Lock	

Octet 0

bit offset	15	14	13	12	11	10	9	8
subindex	/////	/////	/////	/////	/////	/////	/////	/////

Octet 1

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

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

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

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

data type: 64-octet String UTF-8
 default value: "www.ipf-electronic.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

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

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

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
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bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192
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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

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 Version" index=22 id=V_HardwareRevision

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 Version" index=23 id=V_FirmwareRevision

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
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bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320
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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 "Application Specific Tag" index=24 id=V_ApplicationSpecificTag

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

data type: 8-bit UInteger
allowed values: 0 = Device is OK, 1 = Maintenance required, 2 = Out of specification, 3 = Functional check, 4 = Failure, 5..255 = Reserved
access rights: ro
dynamic

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

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

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_FunctionTag

description: User specified function tag
data type: 32-octet String UTF-8
default value: "*****"
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_LocationTag

description: User specified location tag

data type: 32-octet String UTF-8

default value: "*****"

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 "TI Select" index=58 id=V_TeachChannel

data type: 8-bit UInteger

allowed values: 1 = SSC1

default value: 1

access rights: rw

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

Variable "Teach Status" index=59 id=V_TeachStatus

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, 4 = Waiting for Command, 5 = Busy, 7 = Error	0				Teach State	0 - Idle, 1 - SP1 Success, 2 - SP2 Success, 3 - SP2 Success, 4 - Waiting for Command, 5 - Busy, 7 - Error
2	4	Boolean	false = Not Taught, true = Taught	false				Teach Flag SP1 TP1	false - Not Taught, true - Taught
3	5	Boolean	false = Not Taught, true = Taught	false				Teach Flag SP1 TP2	false - Not Taught, true - Taught

Octet 0

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

Variable "SSC1 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		100				SP1	[Percent]

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	//////	//////	//////	//////
element bit	31 - 24	23 - 16	15 - 8	7 - 0				

Variable "SSC1 Config" index=61 id=V_SSC1_Config

description: Switching Signal Channel Configuration

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	8	8-bit UInteger	0 = Normal, 1 = Inverted	0				Logic	Selects the SSC logic: normal, inverted
2	0	8-bit UInteger	0 = Disabled, 1 = Single Point	1				Mode	Selects the SSC switch mode: Disabled, Single Point, Window

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

Variable "Quality" index=64 id=V_QualityValue

description: Quality value settings

data type: 16-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	16-bit UInteger						Quality Value	Represents the excess gain 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		150				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	1001				Temperature	Selection between temperature units

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	1	1	
element bit	15 - 8	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	1				Output Circuit	Only Push-Pull supported
2	0	16-bit UInteger	0 = None, 100 = SSC1 - State, 400 = SSC4 - State	100				Output Mode	Selection between SCC1 and SCC4 Signal 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: 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
2	8	8-bit UInteger	0 = Off, 1 = On	0				Green Mode	On: Power ON(short circuit flashing); Off: Deactivated
12	0	8-bit UInteger	0 = Off, 1 = On, 2 = Inverted	0				Yellow Mode	On: State of Pin 4(weak signal flashing); Inverted: Inverted behaviour; Off: Deactivated

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	12	
element bit	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		5				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 "MDC Selection" index=83 id=V_PdiProcessValueSelection

data type: 8-bit Record

access rights: rw

subindex	bit	data	allowed values	default	acc.	mod.	excl.	name	description
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	offset	type		value	restr.	other var.	from DS		
1	0	8-bit UInteger	1 = Intensity Value, 2 = Quality Value, 3 = SSC1 Switch Counter, 6 = SSC4 Switch Counter	1				Source	Process Value Sources: 1: Intensity Value, 2: Quality Value, 3: SSC1 Switch Counter, 4: SSC4 Switch Counter

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

Variable "SSC Process Value Settings" index=85 id=V_SSC_ProcessValueSettings

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
31	8	8-bit UInteger	3 = SSC1 Switch Counter	3				SSC4 Source	Select the switch counter that is used as input of SSC4
32	0	8-bit UInteger	0 = Disabled, 2 = Enabled	0				SSC4 Auto-Reset Mode	SSC4 Auto-Reset Mode: 0: Disabled, 2: Enabled

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	31	32	
element bit	7 - 0	7 - 0	

Variable "Measurement Values" index=88 id=V_MeasurementValues

description: Measurement Values

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	16	16-bit UInteger						Intensity Value	Intensity measuring value
11	0	16-bit UInteger						Quality Value	Quality measuring value

octet	0	1	2	3	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	1	11	11	
element bit	15 - 8	7 - 0	15 - 8	7 - 0	

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

description: Teach Point Offset

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 Integer		33				TPO	Used in single point mode to determine SP1 based on the teach-in situation

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

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

description: Teach Mode Settings

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

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 = XPert Static, 1 = XPress Static, 2 = XPert Dynamic, 3 = XPress Dynamic	0				Teach Mode	Teach Mode Procedure

octet	0	
bit offset	7 - 0	
subindex	1	
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		0				SSC1 Time	Sets the SSC's release delay time
32	0	32-bit UInteger		0				SSC4 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	32	32	32	32
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		0				SSC1 Time	Sets the SSC's response delay time
32	0	32-bit UInteger		0				SSC4 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	32	32	32	32
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 UInteger		0				SSC1 Time	Sets the SSC's minimal pulse duration time
32	0	32-bit UInteger		0				SSC4 Time	Sets the SSC's minimal pulse duration 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	32	32	32	32
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	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 "Switch Counts" index=225 id=V_SSCSwitchCounts

data type: 64-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
2	32	32-bit UInteger						SSC1 Resetable	SSC1 Resetable Switch Counts
32	0	32-bit UInteger						SSC4 Resetable	SSC4 Resetable Switch Counts

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	32	32	32	32
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Specific Commands" index=1000 id=V_specificCommands

description: specific commands

data type: 32-bit UInteger

allowed values: 12 = SSC1 Switch Counts Reset, 15 = SSC4 Switch Counts Reset

access rights: wo

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

Variable "SSC4 Param" index=16386 id=V_SSC4_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		10				SP1	[counts]
2	0	32-bit Integer		50				SP2	[counts]

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 "SSC4 Config" index=16387 id=V_SSC4_Config

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	8	8-bit UInteger	0 = Normal, 1 = Inverted	0				Logic	Selects the SSC logic: normal, inverted
2	0	8-bit UInteger	0 = Disabled, 1 = Single Point, 2 = Window	1				Mode	Selects the SSC switch mode: Disabled, Single Point, Window

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

Variable "MDC Descriptor" index=16512 id=V_MdcDescriptor

data type: 56-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	40	16-bit Integer						Lower Limit	Lower limit value
2	24	16-bit Integer						Upper Limit	Upper limit value
3	8	16-bit UInteger	1997 = None					Unit code	Unit code value
4	0	8-bit Integer						Scale	Scale code value

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

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