



## Data Sheet CODESYS SoftMotion Light SL

CODESYS SoftMotion Light allows to command CiA 402 compatible drives for single axis movements (not synchronized).

### Product description

CODESYS SoftMotion Light allows to command CiA 402 compatible drives for single axis movements (not synchronized).

In contrast to CODESYS SoftMotion and CODESYS SoftMotion CNC+Robotics, the calculation of the axis movements is not done within the controller. With CODESYS SoftMotion Light movements of the drive are just commanded and supervised (status) by the PLC and executed by the drive. The trajectory calculation is done in the drive.

CODESYS SoftMotion Light is suitable for applications with multiple axes for single axes movements and for controller tasks requiring a low bus and computing load (CPU).

The software components of CODESYS SoftMotion Light (configurator, libraries, device descriptions and online help) are part of the standard setup of the CODESYS Development System.

### Available function blocks for single axis movements according to PLCopen:

- MC\_MoveAbsolute / MC\_MoveRelative
- MC\_MoveVelocity
- MC\_Stop / MC\_Halt
- MC\_Home

### Other POU's and product components:

- MC\_Power / MC\_Reset / MC\_ReadStatus
- SML\_ReinitAxis / SML\_ChangeAxisConfig
- Visualization templates (analogue to SoftMotion)
- Commissioning assistance (SML\_StartupDrive)

Configuration and commissioning of the drives is described in detail in CODESYS online help (chapter "SoftMotionLight").

CODESYS SoftMotion Light.project - CODESYS

File Edit View Project Build Online Debug Tools Window Help

Devices: CODESYS SoftMotion Light  
 Device (CODESYS Control Win V3)  
 PLC Logic  
 Application  
 Library Manager  
 PLC\_PRG (PRG)  
 Task Configuration  
 EtherCAT\_Master  
 EtherCAT\_Master.EtherCAT\_Task  
 MainTask  
 EtherCAT\_Master (EtherCAT Master)  
 Accelnet (Accelnet EtherCAT Drive (CoE))  
 SML\_Drive\_ETC\_GenericDSP402 (SML\_Drive\_ETC\_GenericDSP402)

SML\_Drive\_ETC\_GenericDSP402 x

SoftMotionLight SML\_Drive\_ETC\_GenericDSP402: I/O Mapping Status Information

General settings  
 Module  
 Finite

Velocity ramp type  
 Trapezoid  
 Sin²

Scaling  
 Invert direction  
 16#10000 increments <=> motor turns 1  
 1 motor turns <=> gear output turns 1  
 1 gear output turns <=> units in application 1

Mapping  
 Automatic mapping

Inputs:

Cyclic object	Object number	Address	Type
status word (dsp402.vars.wStatus)	16#6041:16#00	%IWO'	UINT'
actual position (diActPosition)	16#6064:16#00	"	"
Actual Mode of Operation (eActOpmode)	16#6061:16#00	"	"
actual position (diActPosition)	16#6063:16#00	"	"

Outputs:

Cyclic object	Object number	Address	Type
ControlWord (dsp402.vars.wControl)	16#6040:16#00	%QW0'	UINT'
Mode of Operation (eSetOpmode)	16#6060:16#00	"	"
Target position/distance (fTargetPosDis)	16#607A:16#00	"	"
Target velocity (fTargetVelocity)	16#60FF:16#00	"	"

Online  
 Status:  
 Communication:  
 FB Error:  
 uiDriveInterfaceError:  
 strDriveInterfaceError:

Last build: 0 0 0 Precompile: ✓ Current user: (nobody)

CODESYS SoftMotion Light.project - CODESYS

File Edit View Project Build Online Debug Tools Window Help

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 MainTask  
 EtherCAT\_Master (EtherCAT Master)  
 Accelnet (Accelnet EtherCAT Drive (CoE))  
 SML\_Drive\_ETC\_GenericDSP402 (SML\_Drive\_ETC\_GenericDSP402)

Accelnet x

Slave Process Data Startup parameters EtherCAT I/O Mapping Status Information

Select the outputs

Name	Type	Index
<input checked="" type="checkbox"/> 16#1600 Receive PDO 0	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1601 Receive PDO 1	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1602 Receive PDO 2	Modes of operation	SINT 16#6060:00
<input type="checkbox"/> 16#1603 Receive PDO 3	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1604 Receive PDO 4	Profile target position	DINT 16#607A:00
<input type="checkbox"/> 16#1605 Receive PDO 5	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1606 Receive PDO 6	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1607 Receive PDO 7	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1608 Receive PDO 8	Target velocity	DINT 16#60FF:00
<input type="checkbox"/> 16#1609 Receive PDO 9	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#160A Receive PDO 10	Target Torque	INT 16#6071:00
<input type="checkbox"/> 16#160B Receive PDO 11	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#160C Receive PDO 12	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#160D Receive PDO 13	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#160E Receive PDO 14	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#160F Receive PDO 15	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1610 Receive PDO 16	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1611 Receive PDO 17	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1612 Receive PDO 18	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1613 Receive PDO 19	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1614 Receive PDO 20	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1615 Receive PDO 21	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1616 Receive PDO 22	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1617 Receive PDO 23	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1618 Receive PDO 24	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1619 Receive PDO 25	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#161A Receive PDO 26	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#161B Receive PDO 27	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#161C Receive PDO 28	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#161D Receive PDO 29	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#161E Receive PDO 30	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#161F Receive PDO 31	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1620 Receive PDO 32	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1621 Receive PDO 33	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1622 Receive PDO 34	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1623 Receive PDO 35	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1624 Receive PDO 36	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1625 Receive PDO 37	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1626 Receive PDO 38	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1627 Receive PDO 39	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1628 Receive PDO 40	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1629 Receive PDO 41	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#162A Receive PDO 42	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#162B Receive PDO 43	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#162C Receive PDO 44	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#162D Receive PDO 45	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#162E Receive PDO 46	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#162F Receive PDO 47	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1630 Receive PDO 48	Control word	UINT 16#6040:00
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<input type="checkbox"/> 16#1637 Receive PDO 55	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1638 Receive PDO 56	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1639 Receive PDO 57	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#163A Receive PDO 58	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#163B Receive PDO 59	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#163C Receive PDO 60	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#163D Receive PDO 61	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#163E Receive PDO 62	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#163F Receive PDO 63	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1640 Receive PDO 64	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1641 Receive PDO 65	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1642 Receive PDO 66	Control word	UINT 16#6040:00
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<input type="checkbox"/> 16#1647 Receive PDO 71	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1648 Receive PDO 72	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1649 Receive PDO 73	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#164A Receive PDO 74	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#164B Receive PDO 75	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#164C Receive PDO 76	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#164D Receive PDO 77	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#164E Receive PDO 78	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#164F Receive PDO 79	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1650 Receive PDO 80	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1651 Receive PDO 81	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1652 Receive PDO 82	Control word	UINT 16#6040:00
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<input type="checkbox"/> 16#1655 Receive PDO 85	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1656 Receive PDO 86	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1657 Receive PDO 87	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1658 Receive PDO 88	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1659 Receive PDO 89	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#165A Receive PDO 90	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#165B Receive PDO 91	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#165C Receive PDO 92	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#165D Receive PDO 93	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#165E Receive PDO 94	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#165F Receive PDO 95	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1660 Receive PDO 96	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1661 Receive PDO 97	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1662 Receive PDO 98	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1663 Receive PDO 99	Control word	UINT 16#6040:00
<input type="checkbox"/> 16#1664 Receive PDO 100	Control word	UINT 16#6040:00

Select the inputs

Name	Type	Index
<input type="checkbox"/> 16#1A00 Transmit PDO 0	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A01 Transmit PDO 1	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A02 Transmit PDO 2	Modes of operation display	SINT 16#6061:00
<input checked="" type="checkbox"/> 16#1A03 Transmit PDO 3	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A04 Transmit PDO 4	Actual motor position	DINT 16#6064:00
<input type="checkbox"/> 16#1A05 Transmit PDO 5	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A06 Transmit PDO 6	Actual motor velocity	DINT 16#606C:00
<input type="checkbox"/> 16#1A07 Transmit PDO 7	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A08 Transmit PDO 8	Torque actual value	INT 16#6077:00
<input type="checkbox"/> 16#1A09 Transmit PDO 9	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A0A Transmit PDO 10	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A0B Transmit PDO 11	Digital input line status	UDINT 16#60FD:00
<input type="checkbox"/> 16#1A0C Transmit PDO 12	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A0D Transmit PDO 13	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A0E Transmit PDO 14	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A0F Transmit PDO 15	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A10 Transmit PDO 16	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A11 Transmit PDO 17	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A12 Transmit PDO 18	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A13 Transmit PDO 19	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A14 Transmit PDO 20	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A15 Transmit PDO 21	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A16 Transmit PDO 22	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A17 Transmit PDO 23	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A18 Transmit PDO 24	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A19 Transmit PDO 25	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A1A Transmit PDO 26	Status word	UINT 16#6041:00
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<input type="checkbox"/> 16#1A1E Transmit PDO 30	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A1F Transmit PDO 31	Status word	UINT 16#6041:00
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<input type="checkbox"/> 16#1A21 Transmit PDO 33	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A22 Transmit PDO 34	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A23 Transmit PDO 35	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A24 Transmit PDO 36	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A25 Transmit PDO 37	Status word	UINT 16#6041:00
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<input type="checkbox"/> 16#1A28 Transmit PDO 40	Status word	UINT 16#6041:00
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<input type="checkbox"/> 16#1A37 Transmit PDO 55	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A38 Transmit PDO 56	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A39 Transmit PDO 57	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A3A Transmit PDO 58	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A3B Transmit PDO 59	Status word	UINT 16#6041:00
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<input type="checkbox"/> 16#1A47 Transmit PDO 71	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A48 Transmit PDO 72	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A49 Transmit PDO 73	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A4A Transmit PDO 74	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A4B Transmit PDO 75	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A4C Transmit PDO 76	Status word	UINT 16#6041:00
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<input type="checkbox"/> 16#1A57 Transmit PDO 87	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A58 Transmit PDO 88	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A59 Transmit PDO 89	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A5A Transmit PDO 90	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A5B Transmit PDO 91	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A5C Transmit PDO 92	Status word	UINT 16#6041:00
<input type="checkbox"/> 16#1A5D Transmit		

## General information

### Manufacturer:

3S-Smart Software Solutions GmbH  
 Memminger Strasse 151  
 87439 Kempten  
 Germany

### Support:

<https://support.codesys.com>

### Item:

CODESYS SoftMotion Light SL

### Item number:

2305000002

### Sales:

CODESYS Store

<https://store.codesys.com>

### Included in delivery:

- Package for the CODESYS Development System including license agreement and online help
- License key

## System requirements and restrictions

<b>Programming System</b>	CODESYS Development System V3.5.9.50 or higher
<b>Runtime System</b>	CODESYS Control Version 3.5.5.0 or higher
<b>Supported Platforms/ Devices</b>	Note: Use the project "Device Reader" to find out the supported features of your device. "Device Reader" is available for free in the CODESYS Store.
<b>Additional Requirements</b>	<ul style="list-style-type: none"> <li>• WIBU Codemeter Support</li> <li>• CiA 402 compatible drive with CANopen or EtherCAT            Compatibility can be checked with the test project  <i>SML_CompatibilityCheck_DS402.project</i></li> </ul>
<b>Restrictions</b>	Synchronized movements of multiple axes are not supported.
<b>Licensing</b>	License activation optional on CODESYS Key or Soft Key (Soft Key: free of charge component of CODESYS Controls)
<b>Required Accessories</b>	Optional: CODESYS Key

*Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact [sales@codesys.com](mailto:sales@codesys.com).*

*Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.*