



## Bosch-Rexroth IndraDrive FB

Function block providing to use the drive-controlled positioning of IndraDrives.

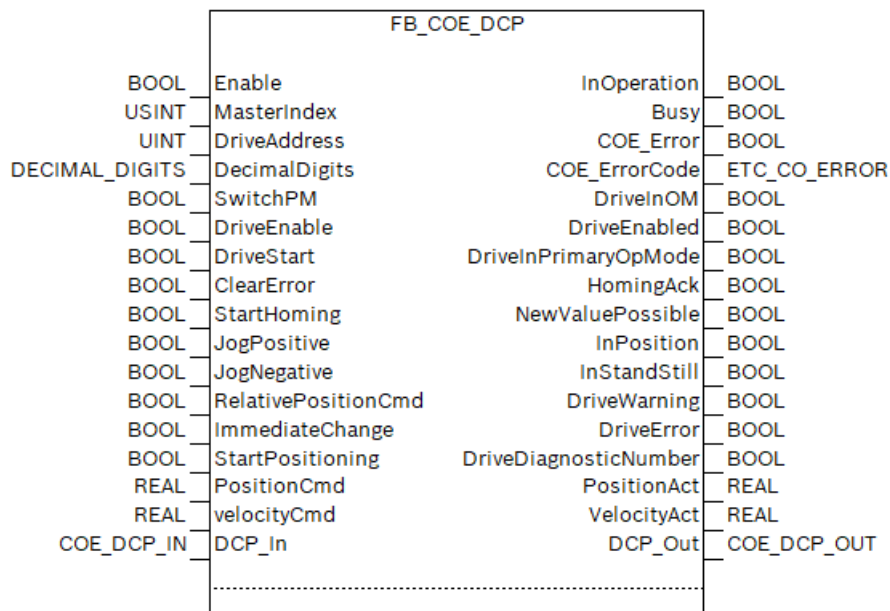
### Product description

A function block is provided that allows a user to control the drive-controlled positioning within IndraDrives, documentation and sample project as well as basic configuration of the drives is also provided.

### Functions

Supported fieldbus: EtherCAT CoE

### Screenshots



Codesys\_EC\_CoE\_DCP

Device [connected] (CODESYS Control Win V3 x64)

PLC Logic

- Application [run]
  - CoE\_DCP
  - CoE\_GVL
  - Library Manager
  - PLC\_PRG (PRG)
  - Task Configuration
    - EtherCAT\_Task (IEC-Tasks)
    - MainTask (IEC-Tasks)
    - PLC\_PRG
  - EtherCAT\_Master (EtherCAT Master)
  - IndraDrive\_MPC20\_CoE (IndraDrive MPC20/21 CoE)
    - CoE (No mode assigned with Rexroth objects)

```

1 // DCP instance
2 fbCoE_DCP(
3   Enable TRUE := bEnable TRUE,
4   MasterIndex 1 := uiMasterIndex 1,
5   DriveAddress 1001 := uiDriveAddress 1001,
6   DecimalDigits := stDecimalDigits,
7   SwitchPM FALSE := bSwitchPM FALSE,
8   DriveEnable FALSE := bDriveEnable FALSE,
9   DriveStart FALSE := bDriveStart FALSE,
10  ClearError FALSE := bClearError FALSE,
11  StartHoming FALSE := bStartHoming FALSE,
12  JogPositive FALSE := bJogPositive FALSE,
13  JogNegative FALSE := bJogNegative FALSE,
14  RelativePositionCmd FALSE := bRelativePositionCmd FALSE,
15  ImmediateChange FALSE := bImmediateChange FALSE,
16  StartPositioning FALSE := bStartPositioning FALSE,
17  PositionCmd 0 := rPositionCmd 0,
18  VelocityCmd 0 := rVelocityCmd 0,
19  DCP_In := COE_GVL.stDCPIn,
20  InOperation TRUE => bInOperation TRUE,
21  Busy FALSE => bBusy FALSE,
22  COE_Error FALSE => bCOE_Error FALSE,
23  COE_ErrorCode ETC_CO_NO => enErrorCode ETC_CO_NO,
24  DriveInOM TRUE => bDriveInOM TRUE,
25  DriveEnabled FALSE => bDriveEnabled FALSE,
26  DriveInPrimaryOpMode FALSE => bDriveInPrimaryOpMode FALSE,
27  HomingAck FALSE => bHomingAck FALSE,
28  NewValuePossible FALSE => bNewValuePossible FALSE,
29  InPosition FALSE => bInPosition FALSE,
30  InStandStill TRUE => bInStandStill TRUE,
31  DriveWarning FALSE => bDriveWarning FALSE,
32  DriveError FALSE => bDriveError FALSE,
33  DriveDiagnosticNumber 3221880850 => udiDriveDiagnosticNumber
34  PositionAct -0.0007 => rPositionAct -0.0007,
35  VelocityAct -0.229 => rVelocityAct -0.229,
36  DCP_Out => COE_GVL.stDCPOut);RETURN
  
```

## General information

**Supplier:**

CODESYS GmbH  
 Memminger Strasse 151  
 87439 Kempten  
 Germany

**Support:**

<https://support.codesys.com>

**Item:**

Bosch-Rexroth IndraDrive FB

**Item number:**

2112000016

**Sales:**

CODESYS Store

<https://store.codesys.com>

**Included in delivery:**

Software .zip-file

## System requirements and restrictions

<b>Programming System</b>	CODESYS Development System Version 3.5.95.0 or higher
<b>Runtime System</b>	CODESYS Control V3.5.5.0
<b>Supported Platforms / Devices</b>	All IndraDrives starting with MPx20VRS
<b>Additional Requirements</b>	None
<b>Restrictions</b>	None

**Licensing**


NO LICENSE

No license is required.

<b>Required Accessories</b>	None
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*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.*