

FLM TEMP 4 RTD M12 - Distributed I/O device



2736819

<https://www.phoenixcontact.com/us/products/2736819>

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The local bus device has 4 inputs for resistive temperature sensors. Functions: 180 µs A/D conversion time, measured value output in 16-bit values, 500 kbaud/2 Mbaud selection, PCP configuration, short-circuit/overload protection, M12 fast connection technology.

Your advantages

- Flexible power supply concept
- SPEEDCON fast locking system
- Diagnostic and status indicators
- Short-circuit and overload protection
- Consistent connection via M12 connectors

Commercial data

Item number	2736819
Packing unit	1 pc
Sales key	DR03
Product key	DRI443
Catalog page	Page 193 (C-6-2019)
GTIN	4046356163248
Weight per piece (including packing)	333 g
Weight per piece (excluding packing)	280 g
Customs tariff number	85176200
Country of origin	DE

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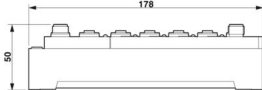


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Technical data

Dimensions

Dimensional drawing	
Width	70 mm
Height	178 mm
Depth	50 mm
Drill hole spacing	168 mm

Material specifications

Color	anthracite
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Interfaces

Fieldline local bus

Connection method	M12 connector, B-coded
Transmission speed	500 kbps / 2 Mbps
Transmission physics	Copper

System properties

Module

ID code (dec.)	223
ID code (hex)	DF
Length code (hex)	05
Length code (dec)	05
Process data channel	80 bit
Input address area	10 Byte
Output address area	10 Byte
Register length	96 bit
Required parameter data	17 Byte
Required configuration data	5 Byte

Input data

Analog:

Number of inputs	max. 4 (for resistance temperature detectors)
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor (shielded)

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Analog

Number of inputs	max. 4 (for resistance temperature detectors)
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor (shielded)
Sensor types (RTD) that can be used	Pt, Ni, KTY sensors, linear resistors
Input filter time	4.1 ms (default setting or 0.6 ms; adjustable for each channel)
Process data update	Dependent on the connection method

Product properties

Product type	I/O component
Type	modular

Electrical properties

Potentials

Voltage supply U_L	24 V DC
Power supply at U_L	max. 4 A
Current consumption from U_L	max. 100 mA (At 2 Mbaud) typ. 70 mA
Voltage supply U_S	24 V DC
Power supply at U_S	max. 4 A
Current consumption from U_S	typ. 5 mA (plus power supply for sensors) max. 400 mA

Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)

Connection data

Connection method	M12 connector
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP65/IP67
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	Wall mounting
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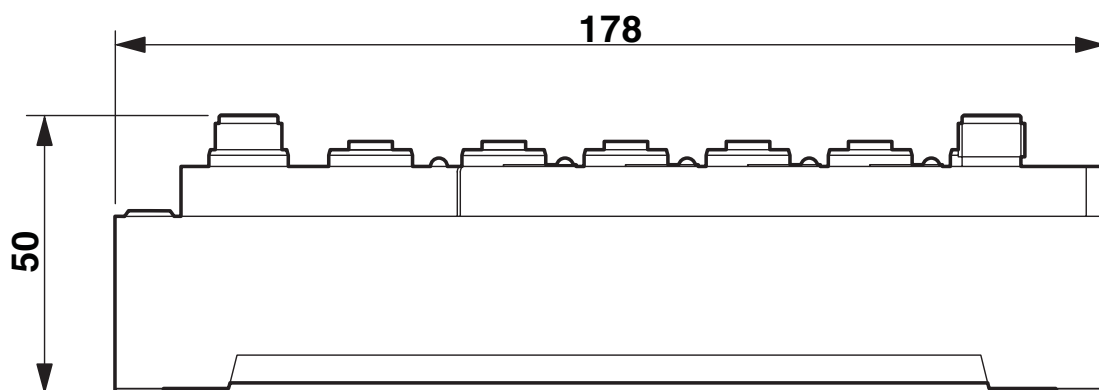


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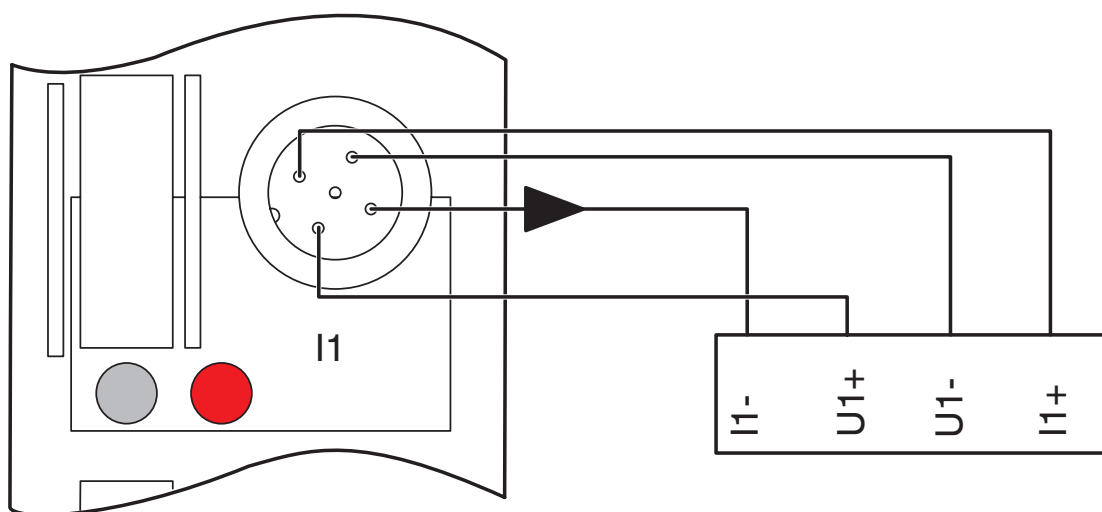
<https://www.phoenixcontact.com/us/products/2736819>

Drawings

Dimensional drawing



Connection diagram



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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2736819>



EAC

Approval ID: RU *-DE.A*30.B.01735

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Classifications

ECLASS

ECLASS-11.0	27242601
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ETIM

ETIM 8.0	EC001596
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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Accessories

ZBF 12:UNBEDRUCKT - Zack Marker strip, flat

0809735

<https://www.phoenixcontact.com/us/products/0809735>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5

SAC-5P-M12MSB/ 2,0-900 - Bus system cable

1507065

<https://www.phoenixcontact.com/us/products/1507065>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on free cable end, cable length: 2 m

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SAC-5P-M12MSB/ 5,0-900 - Bus system cable

1507078

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Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on free cable end, cable length: 5 m

SAC-5P-M12MSB/10,0-900 - Bus system cable

1507081

<https://www.phoenixcontact.com/us/products/1507081>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on free cable end, cable length: 10 m

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SAC-5P-M12MSB/15,0-900 - Bus system cable

1507094

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Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on free cable end, cable length: 15 m

SAC-5P- 2,0-900/M12FSB - Bus system cable

1507117

<https://www.phoenixcontact.com/us/products/1507117>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, free cable end, on Socket straight M12, coding: B, cable length: 2 m

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SAC-5P- 5,0-900/M12FSB - Bus system cable

1507120

<https://www.phoenixcontact.com/us/products/1507120>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, free cable end, on Socket straight M12, coding: B, cable length: 5 m

SAC-5P-10,0-900/M12FSB - Bus system cable

1507133

<https://www.phoenixcontact.com/us/products/1507133>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, free cable end, on Socket straight M12, coding: B, cable length: 10 m

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SAC-5P-15,0-900/M12FSB - Bus system cable

1507146

<https://www.phoenixcontact.com/us/products/1507146>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, free cable end, on Socket straight M12, coding: B, cable length: 15 m

SAC-5P-M12MSB/ 0,3-900/M12FSB - Bus system cable

1507162

<https://www.phoenixcontact.com/us/products/1507162>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 0.3 m

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SAC-5P-M12MSB/ 0,5-900/M12FSB - Bus system cable

1507175

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Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 0.5 m

SAC-5P-M12MSB/ 1,0-900/M12FSB - Bus system cable

1507188

<https://www.phoenixcontact.com/us/products/1507188>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 1 m

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SAC-5P-M12MSB/ 2,0-900/M12FSB - Bus system cable

1507191

<https://www.phoenixcontact.com/us/products/1507191>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 2 m

SAC-5P-M12MSB/ 5,0-900/M12FSB - Bus system cable

1507201

<https://www.phoenixcontact.com/us/products/1507201>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 5 m

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SAC-5P-M12MSB/10,0-900/M12FSB - Bus system cable

1507214

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Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 10 m

SAC-5P-M12MSB/15,0-900/M12FSB - Bus system cable

1507227

<https://www.phoenixcontact.com/us/products/1507227>



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 15 m

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SAC-5P-MS/ 2,0-186 SCO - Sensor/actuator cable

1518326

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Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 2 m

SAC-5P-MS/ 5,0-186 SCO - Sensor/actuator cable

1518339

<https://www.phoenixcontact.com/us/products/1518339>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 5 m

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SAC-5P-MS/10,0-186 SCO - Sensor/actuator cable

1518342

<https://www.phoenixcontact.com/us/products/1518342>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 10 m

SAC-5P-MS/15,0-186 SCO - Sensor/actuator cable

1518355

<https://www.phoenixcontact.com/us/products/1518355>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 15 m

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SAC-5P- 2,0-186/FS SCO - Sensor/actuator cable

1518368

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Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 2 m

SAC-5P- 5,0-186/FS SCO - Sensor/actuator cable

1518371

<https://www.phoenixcontact.com/us/products/1518371>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 5 m

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SAC-5P-10,0-186/FS SCO - Sensor/actuator cable

1518384

<https://www.phoenixcontact.com/us/products/1518384>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 10 m

SAC-5P-15,0-186/FS SCO - Sensor/actuator cable

1518397

<https://www.phoenixcontact.com/us/products/1518397>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 15 m

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SAC-5P-MS/ 0,3-186/FS SCO - Sensor/actuator cable

1518407

<https://www.phoenixcontact.com/us/products/1518407>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 0.3 m

SAC-5P-MS/ 0,5-186/FS SCO - Sensor/actuator cable

1518410

<https://www.phoenixcontact.com/us/products/1518410>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 0.5 m

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SAC-5P-MS/ 1,0-186/FS SCO - Sensor/actuator cable

1518423

<https://www.phoenixcontact.com/us/products/1518423>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 1 m

SAC-5P-MS/ 2,0-186/FS SCO - Sensor/actuator cable

1518436

<https://www.phoenixcontact.com/us/products/1518436>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 2 m

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SAC-5P-MS/ 5,0-186/FS SCO - Sensor/actuator cable

1518449

<https://www.phoenixcontact.com/us/products/1518449>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 5 m

SAC-5P-MS/10,0-186/FS SCO - Sensor/actuator cable

1518452

<https://www.phoenixcontact.com/us/products/1518452>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 10 m

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SAC-5P-MS/15,0-186/FS SCO - Sensor/actuator cable

1518465

<https://www.phoenixcontact.com/us/products/1518465>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 15 m

SACC-M12MSB-5CON-PG9 SH AU - Data connector

1507764

<https://www.phoenixcontact.com/us/products/1507764>



Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Plug straight M12, coding: B, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 mm

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SACC-M12FSB-5CON-PG9 SH AU - Data connector

1507777

<https://www.phoenixcontact.com/us/products/1507777>



Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket straight M12, coding: B, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 mm

SACC-M12MSB-5SC SH - Connector

1513570

<https://www.phoenixcontact.com/us/products/1513570>



Connector, 5-position, shielded, Plug straight M12, coding: B, Spring-cage connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

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SACC-M12FSB-5SC SH - Connector

1513596

<https://www.phoenixcontact.com/us/products/1513596>



Connector, 5-position, shielded, Socket straight M12, coding: B, Spring-cage connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-M12MRB-5SC SH - Connector

1513583

<https://www.phoenixcontact.com/us/products/1513583>



Connector, 5-position, shielded, Plug angled M12, coding: B, Spring-cage connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

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SACC-M12FRB-5SC SH - Connector

1513606

<https://www.phoenixcontact.com/us/products/1513606>



Connector, 5-position, shielded, Socket angled M12, coding: B, Spring-cage connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-M12MS-5SC M - Connector

1508187

<https://www.phoenixcontact.com/us/products/1508187>



Connector, 5-position, Plug straight M12, coding: A, Spring-cage connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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SACC-M12FS-5SC M - Connector

1508200

<https://www.phoenixcontact.com/us/products/1508200>



Connector, 5-position, Socket straight M12, coding: A, Spring-cage connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SAC-5P-MS/ 0,13-186/FS SCO - Sensor/actuator cable

1518481

<https://www.phoenixcontact.com/us/products/1518481>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 0.13 m

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SAC-5P-MSB/0,13-PUR/FSB SCO SH - Sensor/actuator cable

1518478

<https://www.phoenixcontact.com/us/products/1518478>



Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, shielded, Plug straight M12 SPEEDCON, coding: B, on Socket straight M12 SPEEDCON, coding: B, cable length: 0.13 m

SAC-5P-M12MS CAN 150 TR - Termination resistor

1536162

<https://www.phoenixcontact.com/us/products/1536162>



Terminating resistor CANopen[®]/DeviceNet[™] M12

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AX+ BASIC - Software

2985068

<https://www.phoenixcontact.com/us/products/2985068>

Software CD for FDT container for integrating device DTMs (free download)



AX DTM LIB - Programming software

2988065

<https://www.phoenixcontact.com/us/products/2988065>



DTM library

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