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A worldwide presence

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- More than 5 000 points of sale in 190 countries.
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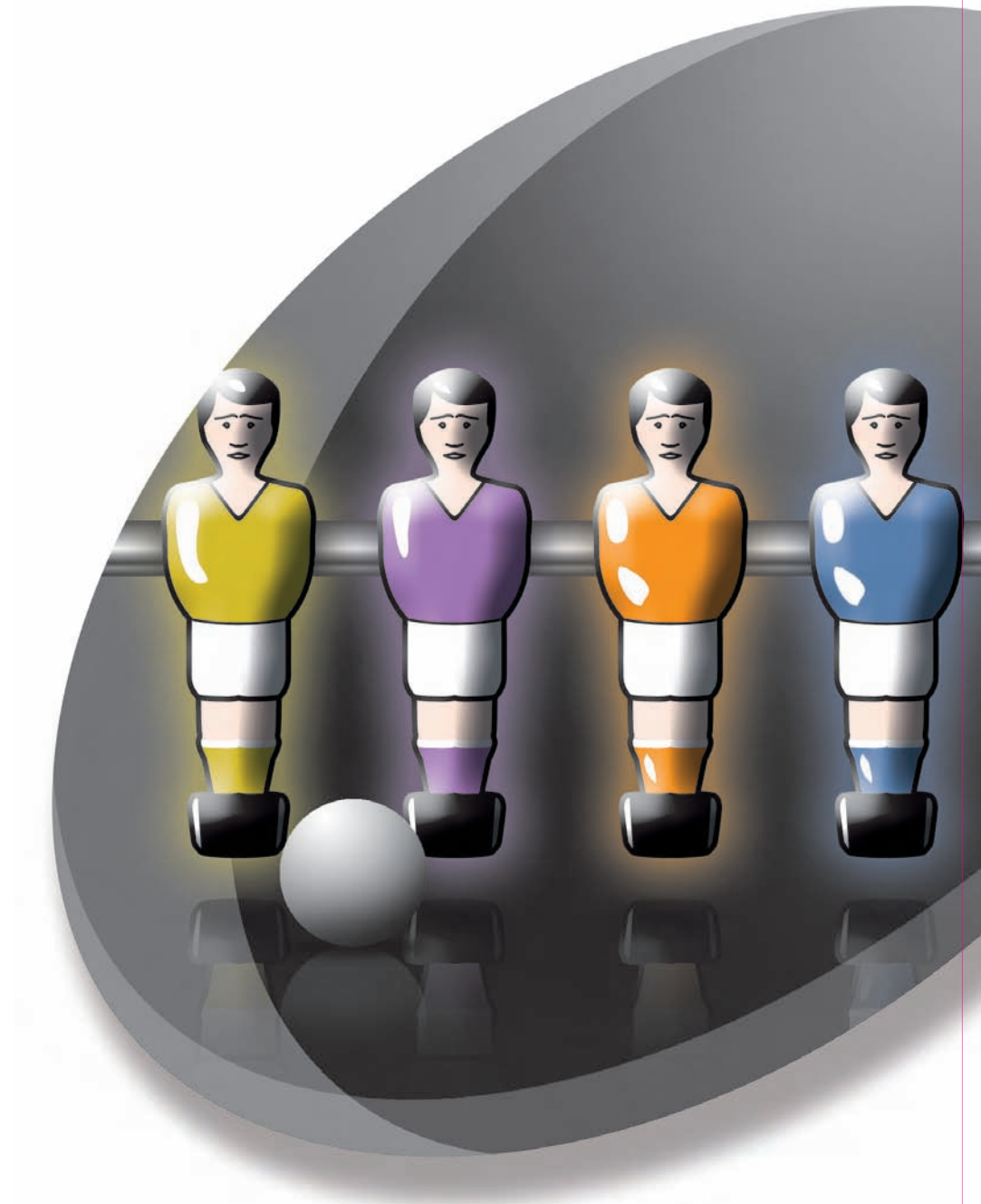
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Telemecanique

Your small machines solutions
The *winning* association



Your solutions...

Simply Smart!
Leveraging
ingenuity
and intelligence
for **ease of use**



... Communication
Zelio & ZelioCom
Simple, compact and open



... Prewired
Twido & Advantys Telefast
Simple and reliable



... Wiring
Twido & AS-Interface
Simple, economical and reliable

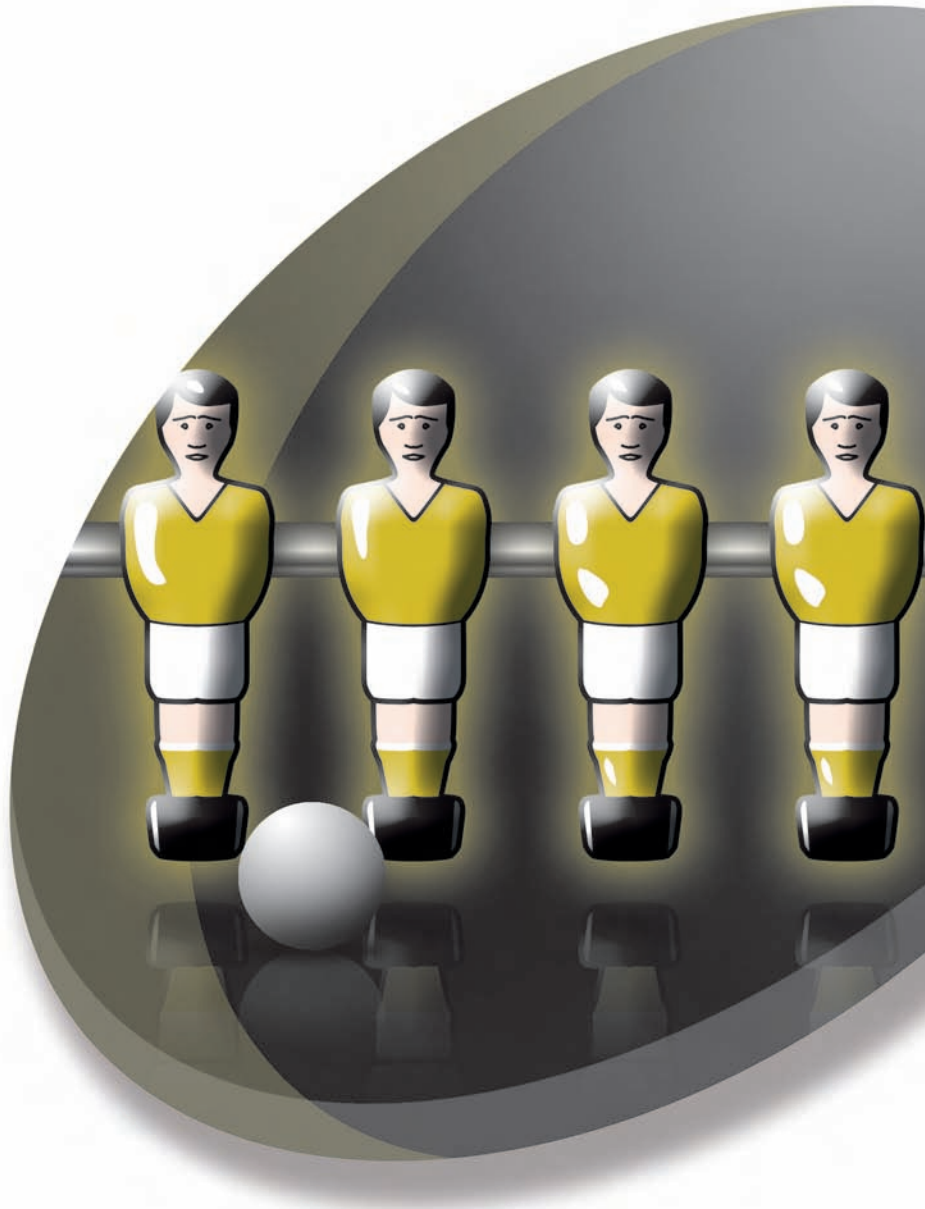


... Automation
Twido & CANopen
Simple, compact and upgradable

Wiring solution

Twido & AS-Interface

The winning association



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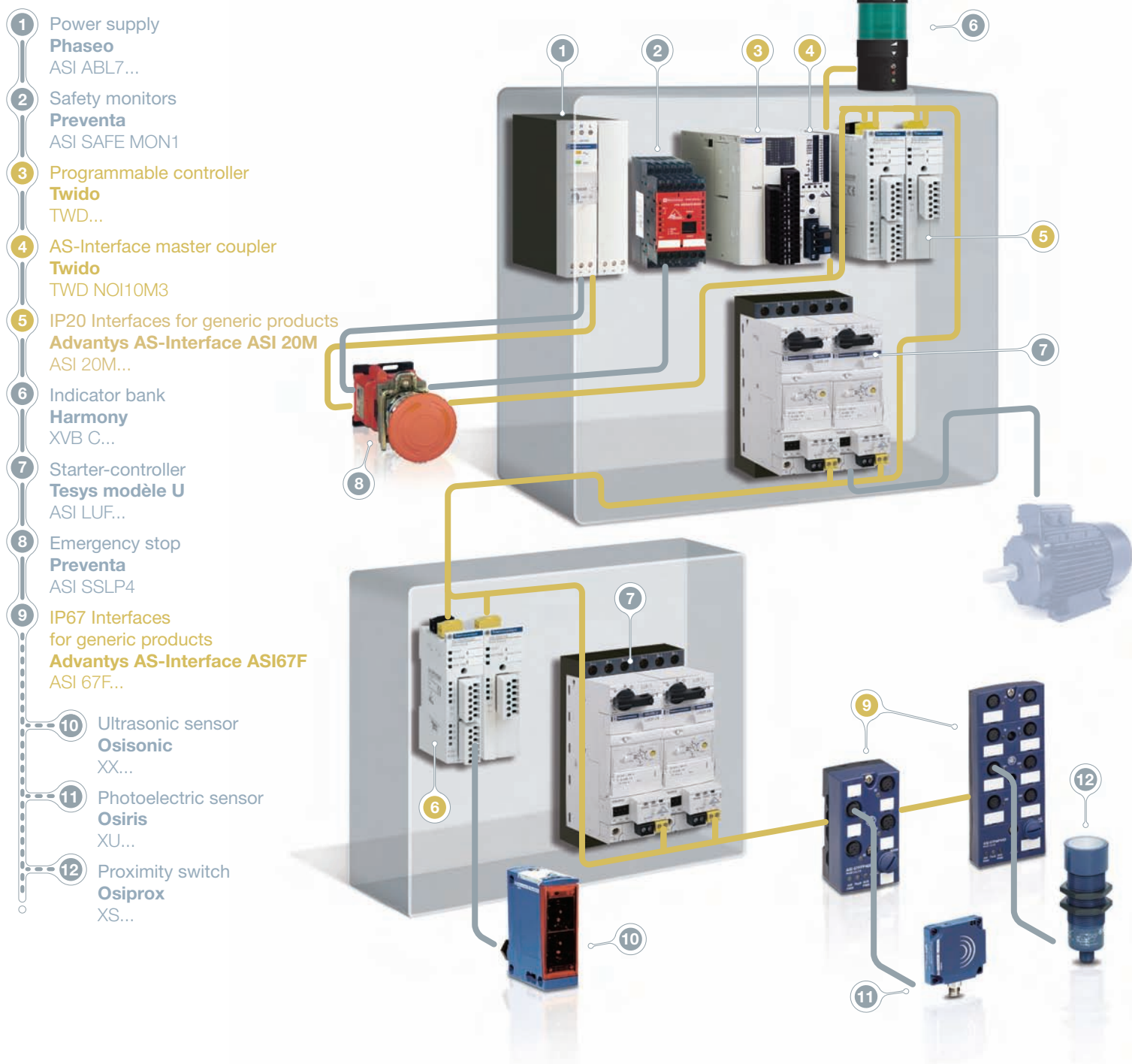
Leveraging
ingenuity
and intelligence
for **ease of use**

Twido & AS-Interface

Simple, economical and reliable

As-Interface is a quick and upgradable wiring system, just a single cable required connect all components in an automated system. It contributes significantly to improvement in reliability, availability and machine safety by reducing wiring errors and by offering high-level electromagnetic interference immunity (EMC). The safety function of the machine is totally integrated with AS-Interface Safety at Work.

The Twido and AS-Interface association offers an easy to use and economical solution, ideal for simple and extended installations and small machines.



Twido & AS-Interface advantages



■ *Equipment selection guide*

With AS-Interface design software avoiding any errors when ordering.

■ *Space saving*

With a AS-Interface master module particularly compact and economic.



■ *Quick and reliable connections*

By AS-Interface cable with ISD displacement or M12 connection.

■ *Easy configuration*

- With the materials catalog integrated in TwidoSuite, create the products list you need for your application.
- With the graphic tool of TwidoSuite configure and modify simply the material description.



Twido & AS-Interface applications

■ *Materials Handling and Transport*

Conveyors (baggage handling, production parts, food processing, etc.) - Sorting systems (baggage, parcels, production parts, etc) - Production line materials handling, transfer and storage systems.

■ *Building and Environment*

Building access control systems (automatic doors, car park barriers, doorways, etc.) - Energy management systems - Lighting management systems - HVAC management systems - Fan control systems.

■ *Packaging*

Packaging and packing machines - Palletizers.

■ *Assembly*

Assembly machines.

■ *Other machines*

Dough rollers.

and any other simple automation system application with sensors and actuators in a distributed architecture.



3 Twido programmable controller

Modular bases

- Compactness: 20 to 40 discrete I/Os for 47.5x70x90 mm,
- Power supply voltage 24 VDC,
- Functions: fast counters, pulse outputs,
- 1 RS 485 multiprotocol port: Modbus.

6 Advantys AS-Interface AS120M IP20 interfaces

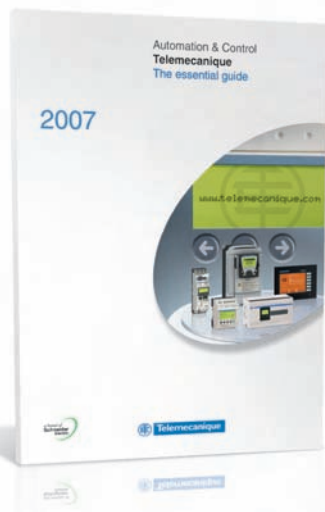
- Most compact interfaces on the market: all products 25mm width,
- Simple installation/dismantling by plug-in screw or spring connectors,
- Discrete inputs for 2 and 3-wire or analogue sensors,
- Relay, triac 2A or transistor 0.5A outputs,
- Up to 62 interfaces per master (V2.1),
- Wide choice of input/output configurations.

4 AS-Interface master coupler

- 2 couplers maximum per PLC,
- 62 addresses maximum,
- AS-Interface/M3, V2.11 protocol.

9 Advantys AS-Interface AS167F IP67 interfaces

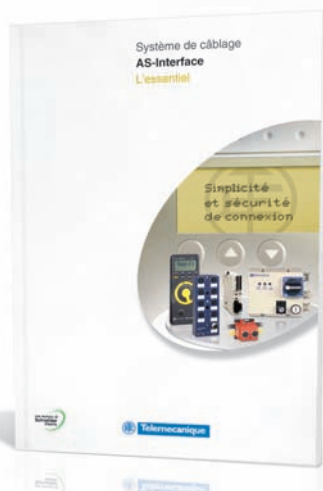
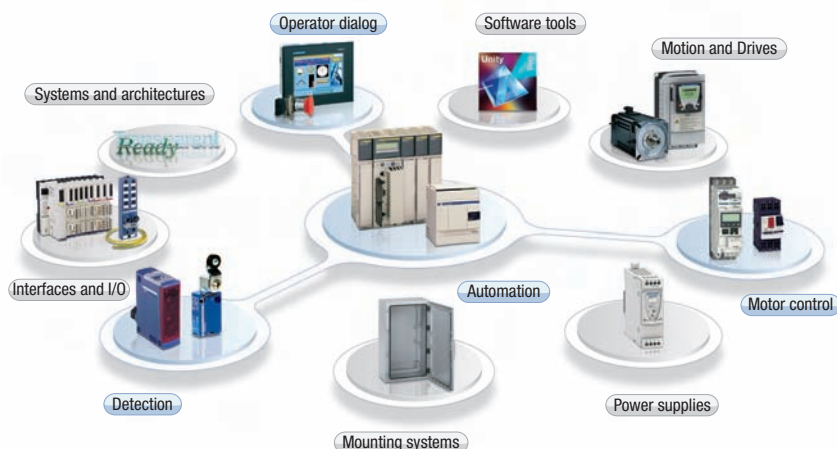
- 4 and 8 channel offers,
- Quick connection of sensors/actuators with M12 connectors,
- Compatibility with Telemecanique Osiprox, Osiris and Osisonic sensors is assured,
- Quick and reliable connection to AS-Interface cable by ISD clip or M12 connectors,
- Up to 62 interfaces per master (V2.1),
- Wide choice of input/output configurations.



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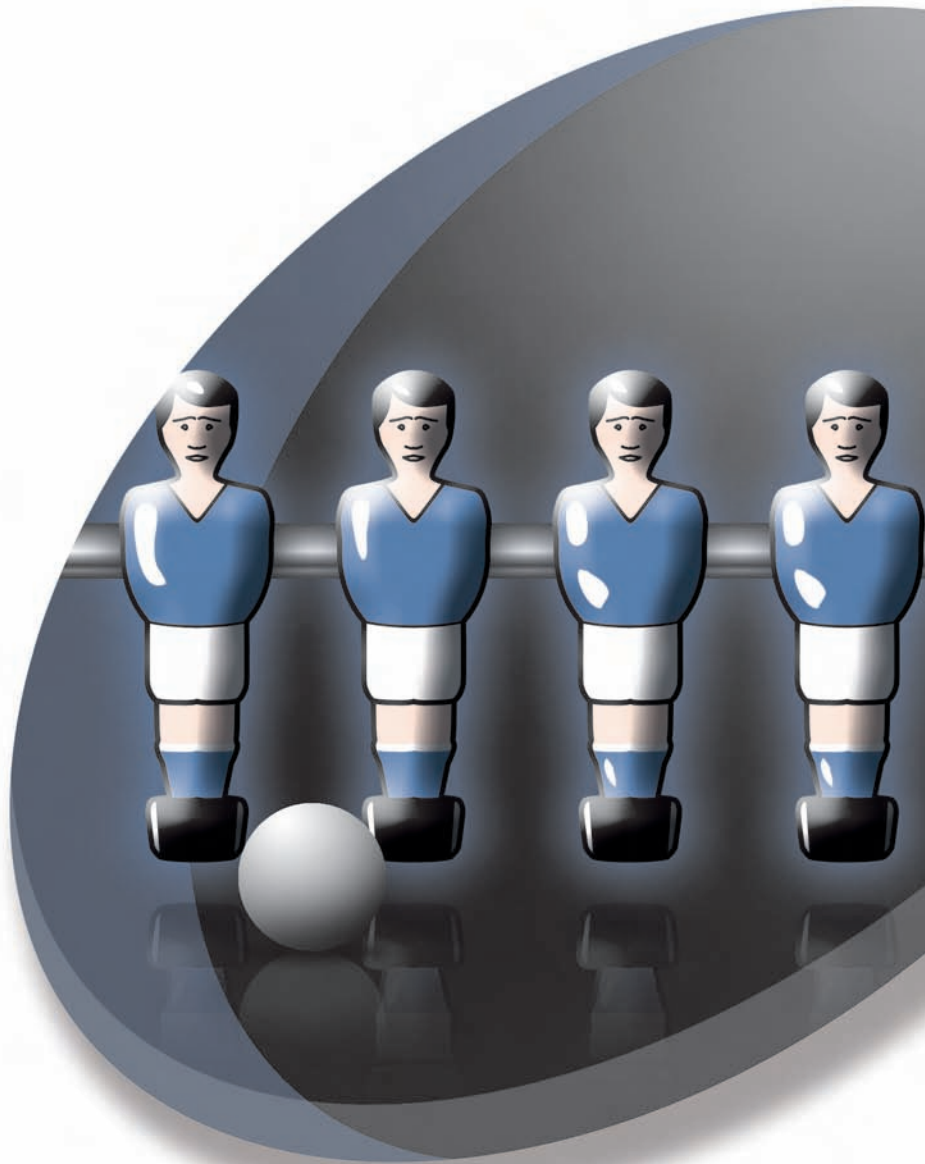
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Prewired solution

Twido & Advantys Telefast

The winning association



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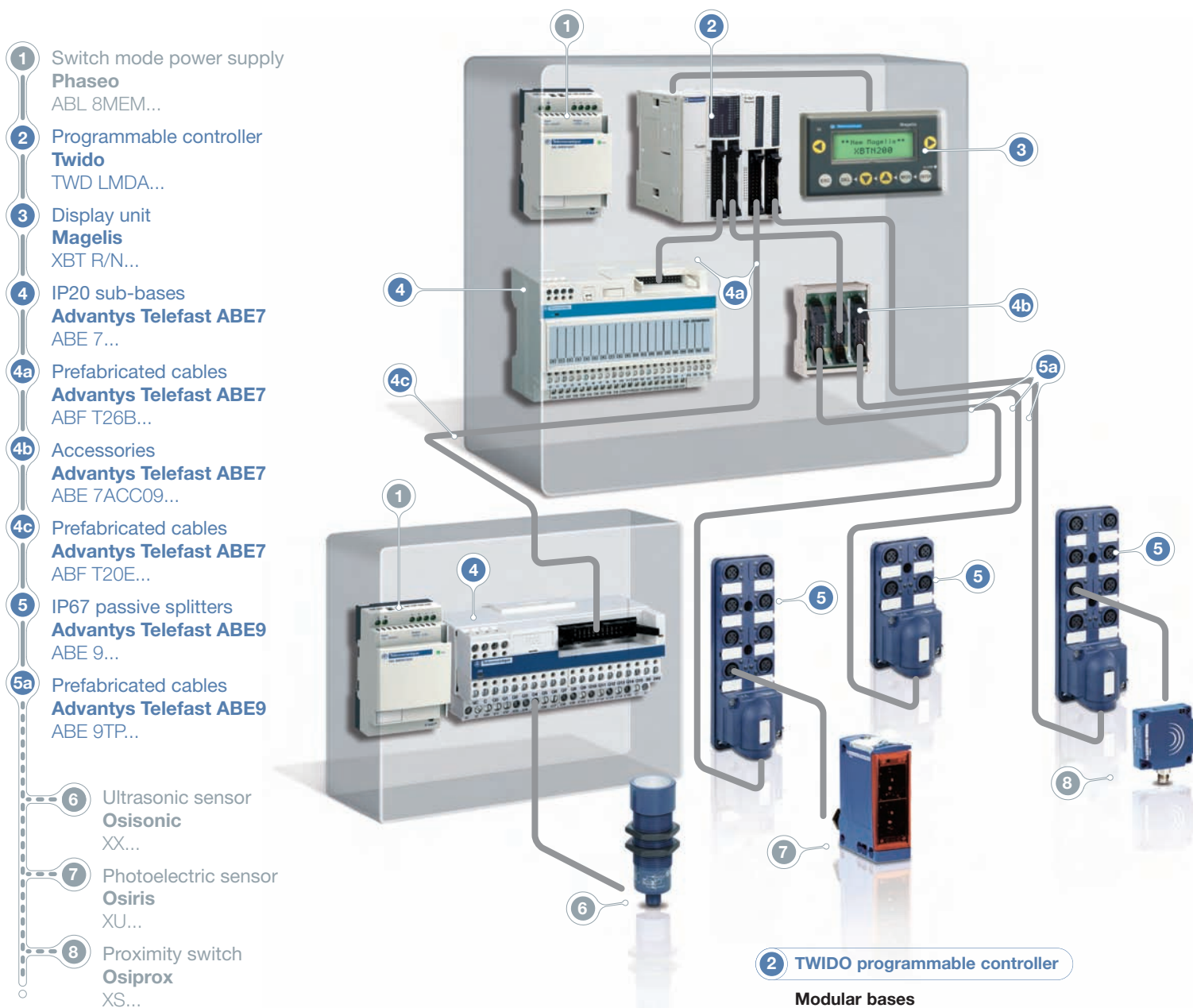
Leveraging
ingenuity
and intelligence
for **ease of use**

Twido & Advantys Telefast

Simple and reliable

The Advantys Telefast IP20 and IP67 prewired system enables connection and adaptation of control signals from Twido modular bases fitted with HE10 connectors. ABE7 IP20 sub-bases simplify wiring by replacing programmable controller and traditional terminal blocks. ABE9 IP67 splitters eliminate lengthy and difficult wiring operations by avoiding use of intermediate connection boxes.

Thanks to its prefabricated cables and accessories, the Twido and Advantys Telefast association offers an easy to use, reliable and high-performance solution for simple installations and compact, small machines.



2 TWIDO programmable controller

Modular bases

- Compactness: 20 to 40 discrete I/Os for 47.5x70x90 mm,
- Power supply voltage 24 VDC,
- Functions: fast counters, pulse outputs,
- 1 RS 485 multiprotocol port: Modbus.

Twido & Advantys Telefast advantages

■ System reliability

A single connection between Advantys Telefast and Twido using standardised and referenced connectors.



■ Quick and simple study and installation

A wide choice of IP20 sub-bases and IP67 splitters with associated cables.



■ Consistent and adapted solutions

A prewired offer from PLC to sensors, ensuring perfect compatibility with Telemecanique Osiprox, Osiris and Osisonic sensors.



■ Easy configuration

- With the materials catalog integrated in TwidoSuite, create the products list you need for your application.
- With the graphic tool of TwidoSuite, configure and modify simply the material description.



Twido & Magelis XBT advantages

■ Simplified installation

A single cable for power supply and data (Modbus link) for XBT N and XBT R only.

■ Time saving and minimise of error

Twido and XBT N/R use the same symbols table.



3 Magelis XBT N/R compact display unit

Magelis XBT N/R

- Backlit LCD display with 1 to 4 lines of 5 to 20 alphanumeric characters,
- Data entry by 8 or 20 keys keypad (numeric input keys on XBT R),
- Modbus (master or slave) or Unitelway integrated communication,
- Power supply voltage 24V DC or 5V DC via PLC serial link.

Twido & Advantys Telefast applications

■ Packaging

Compact and monoaxial packaging and packing machines - Filling machines - Bottling machines - Baggers - Wrappers - Corkers - Labellers - Pallet wrappers - Case packers - Tray packers - Pallet covering machines - Palletizers.

■ Assembly, Metering and Marking

Assembly machines - Metering devices - Weighers - Marking machines - Painting systems.

■ Machining

Woodworking machines - Drills - Drill presses - Sawing machines - Cutting machines - Sanders.

■ Pumping

Pumps (hydraulic, air, fire, etc.) - Vacuum pumps - Booster stations - Compressors.

■ Building

Building access control systems (automatic doors, car park barriers, doorways, etc.) - Energy management systems.

■ Other machines

Dough rollers - Mixers - Washing systems (cleaning, drying).

and any other automated system for compact, small machines.



4 Advantys Telefast ABE7 IP20 sub-bases

- 16 and 20 channels,
- 1, 2 and 3-wire connection,
- Signal status display LED,
- Output channels fuse protection,
- Passive and relay sub-bases,
- Common polarities distribution,
- Economic and high feature sub-bases.

5 Advantys Telefast ABE9 IP67 passive splitters

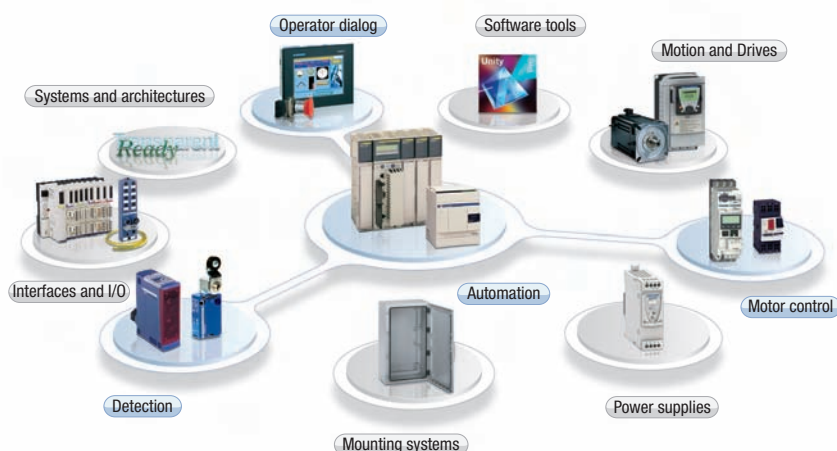
- 4, 6 and 8 M12 connector splitters (2 signals per connector),
- Signal status display LED,
- 24V commons separation possible.



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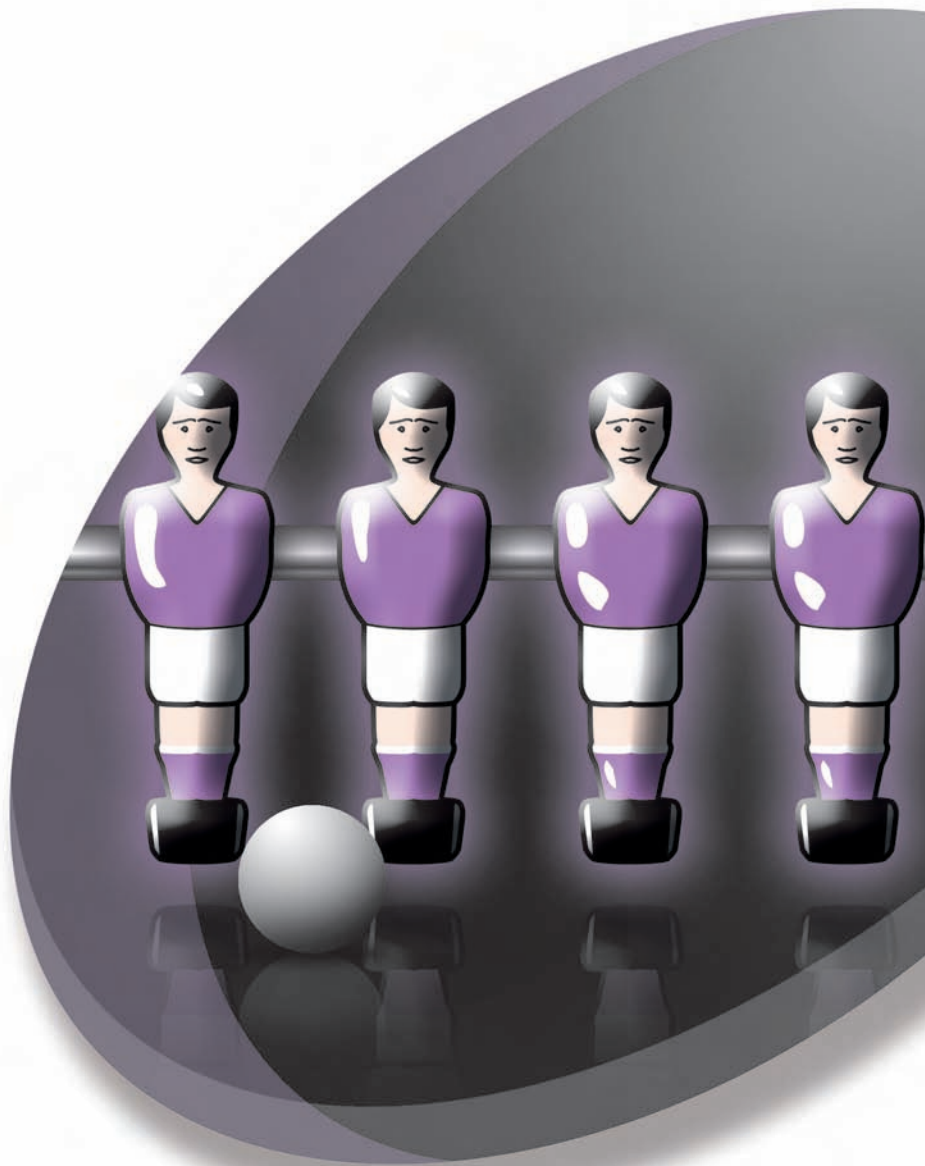
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Twido & CANopen
The winning association



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and intelligence
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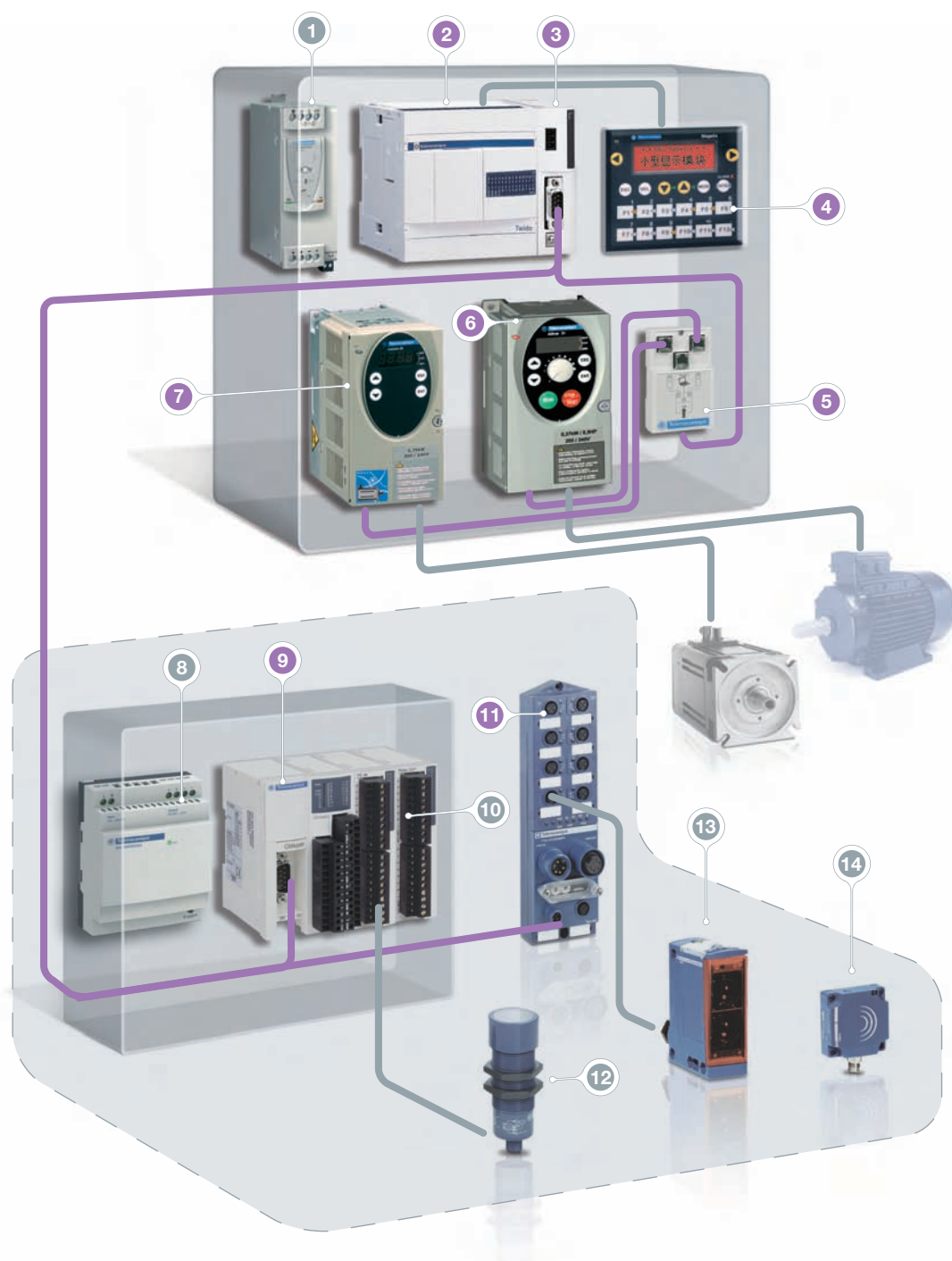
Twido & CANopen

Simple, compact and upgradable

Dedicated to simple installations and compact, small machines, the Twido programmable controller, Altivar 31, 61, 71 variable speed drives, Lexium 05 servo drive, Magelis XBT display unit and Advantys OTB, FTB distributed I/Os are already well-known for their ability to offer you benefits in compactness, simplicity and competitiveness.

Now their association gives you a real solution, guaranteeing you installation simplicity and speed as well as faultless operation of the assembly, thanks to a complete wiring offer and perfect software integration (function blocks integrated in TwidoSuite).

- 1 Power supply
Phaseo
ABL 8...
- 2 Programmable controller
Twido
TWD...
- 3 CANopen master module
Twido
TWD NC01M
- 4 Display unit
Magelis
XBT N/R or XBT GT...
- 5 Accessories
Altivar 31/Lexium 05
VW3CANTAP2
- 6 Variable speed drive
Altivar 31
ATV31...
- 7 Servo drive
Lexium 05
LXM 05...
- 8 Power supply
Phaseo
ABL 8 MEM24012
- 9 IP20 distributed I/Os
Advantys OTB
OTB 1CODM9LP
- 10 I/O extension modules
Twido
TWD...
- 11 IP67 I/O module
Advantys FTB
FTB 1CN...
- 12 Ultrasonic sensor
Osisonic
XX...
- 13 Photoelectric sensor
Osiris
XU...
- 14 Proximity switch
Osiprox
XS...



CANopen

Communication performance and security

Openness of CANopen allows you to access high-performance and efficient communication via a multitude of products.

2 TWIDO programmable controller

Compact bases

- Compactness: 24 to 40 discrete I/Os for 95x70x90 mm,
- Power supply voltage 19.2...30 VDC or 100...240 VAC,
- Functions: fast counters, pulse outputs,
- 1 RS 485 multiprotocol port.

Modular bases

- Compactness: 20 to 40 discrete I/Os for 47.5x70x90 mm,
- Power supply voltage 24 VDC,
- Functions: fast counters, pulse outputs,
- 1 RS 485 multiprotocol port (Modbus).

3 CANopen master module

- 1 module per PLC,
- Power supply voltage 24 VDC.

4 Magelis XBT... compact display unit

Magelis XBT N/R

- Backlit LCD display with 1 to 4 lines of 5 to 20 alphanumeric characters,
- Data entry by 8 or 20 keys keypad (numeric input keys on XBT R),
- Modbus (master or slave) or Unitelway integrated communication,
- Power supply voltage 24V DC or 5V DC via PLC serial link.

Magelis XBT GT 3.8"

- Graphic screen QVGA resolution with 320 x 240 pixels,
- Color Amber and red colour with 8 levels of grey,
- 6 functions keys to optimized a screen capacity,
- Data processing (script in Java).

11 Advantys FTB IP67 I/O splitter

- Configurable modules 16I, 8I/8O, 12I/4O, 16 I/O (M12 connectors),
- Enclosure offer in plastic or metal (for severe environments),
- Integrated channel and module diagnostics,
- Compatibility with sensors/actuators integrating diagnostics (DESINA).

5 6 7 CANopen motion control

- ATV31/71 variable speed drives for asynchronous motors up to 500 kW, with pre-programmed function blocks,
- ATV61 specialised variant for pump and fan control motors up to 630 kW,
- Lexium 05 servodrives for servomotors 0.4 to 6 kW,
- Compact positioners for setting axes IclA, IFE with integrated DC or stepper motor.

9 Advantys OTB IP20 distributed I/Os

- Compactness: 20 I/Os in 55 mm width including bus connection,
- Extension possible using 8 to 32 channel I/O modules (up to 264 channels),
- Wide range of discrete and analogue I/Os common to Twido programmable controllers,
- Sensor/actuator connection by plug-in screw terminal blocks.

Twido & ATV31, 61, 71, Lexium 05 advantages

■ *Easy configuration*

A single TwidoSuite tool for CANOpen configuration and programming.

■ *Simplified communication*

Between Twido and one or several drives using "function blocks".

■ *Large range*

ATV31, 61, 71 and Lexium 05 offer a full range of variable speed and servo drives.



Twido & Magelis XBT advantages

■ *Simplified installation*

A single cable for power supply and data (Modbus link) for XBT N and XBT R only.

■ *Time saving and minimise risk of error*

Twido and XBT N/R use the same symbols table.

■ *Offer large possibilities with XBT GT 3.8"*

To upgrade your process management,
To manage data and curves,
Web technologies embedded (Ethernet connection with FTP server) for easier diagnostic,
Flexibility of communication for simultaneous equipment control (serial port, Ethernet, Modbus).

Twido & Advantys FTB advantages

■ *Consistent and adapted solutions*

An prewired offer from PLC to sensors, ensuring perfect compatibility with Telemecanique Osiprox, Osiris and Osisonic sensors.



Twido & Advantys OTB advantages

■ Quick and simple installation

Transparent communication between Twido and a basic OTB module after its declaration in TwidoSuite.



Twido & FTB, Lexium, ATV, XBT applications

■ Packaging

Filling machines - Bottling machines - Baggers - Wrappers - Corkers - Labellers - Pallet wrappers - Case packers - Tray packers - Pallet covering machines - Palletizers.

■ Machining

Woodworking machines - Drills - Drill presses - Sawing machines - Cutting machines - Sanders.

■ Pumping

Pumps (hydraulic, air, fire, etc.) - Vacuum pumps - Booster stations - Compressors.

■ Materials Handling / Hoisting and Storage

Bridge cranes - Building site cranes - Vehicle lifts - Freight elevators - Elevating platforms - Horizontal stacker machines - Gantry - Paternosters.

■ Building and Environment

Building access control systems (automatic doors, car park barriers, doorways, etc.) - Energy management systems - Lighting management systems - HVAC management systems - Fan control systems.

■ Other machines

Textiles machines - Spinning frames and reeler - Industrial washing machines - Industrial dryers - Dry cleaning machines - Roll-over car washes - High pressure washing stations.



Twido & CANopen Association

- ATV 31 offer large facilities to manage the conveyor,
- ATV 61 offer large facilities to manage pump,
- Cutting process will be managed with care thanks to lexium 05 tork skills,
- HOT SWAP: Simplify your maintenance thanks to the CANopen hot swap mechanism. The hot swap mechanism is a feature which shall allow to remove and to reconnect CANopen slave devices to a system while the system is running.

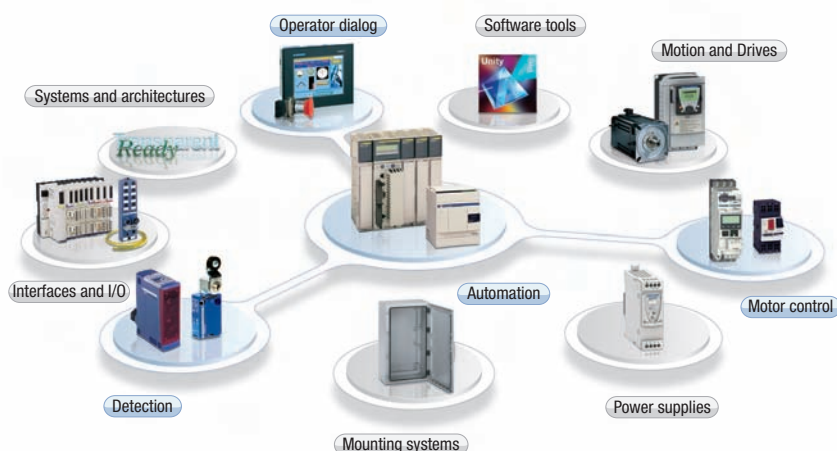




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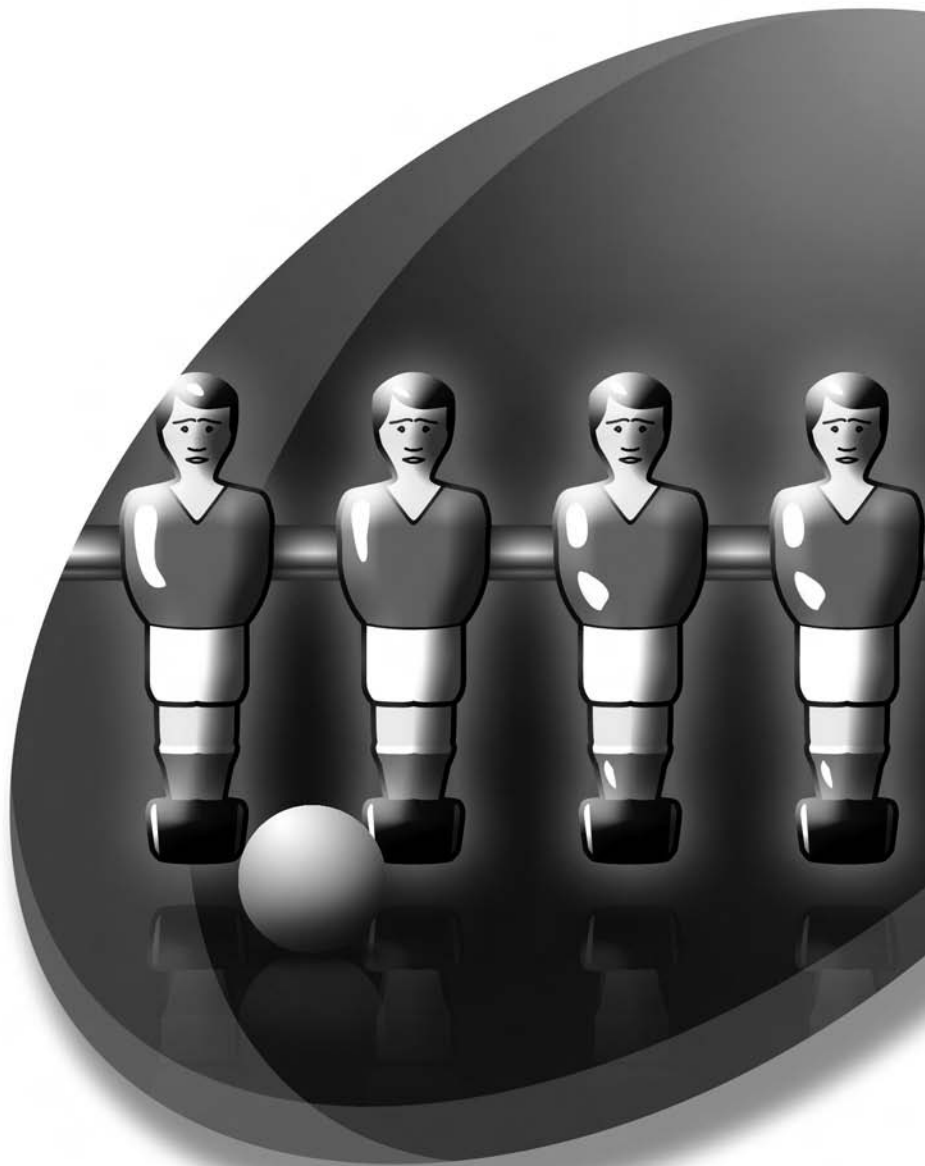
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Twido & CANopen

The winning association



Name _____

Company _____

Function _____

Address _____

Date _____

Signature

Company stamp

Your automation solution...

Twido



Compact bases	TWD LCAA24DRF	TWD LCAA40DRF	TWD LCDA24DRF
Number of inputs	14	24	14
Number of outputs	10 relay	16 (14 relay/2 transistor)	10 relay
Power supply	100...240VAC	100...240VAC	19,2...30VDC

Modular bases	TWD LMDA20DTK	TWD LMDA20DUK	TWD LMDA20DRT	TWD LMDA40DTK	TWD LMDA40DUK
Number of inputs	12	12	12	24	24
Number of outputs	8 source	8 sink	8 (6 relay/2 source)	16 source	16 sink



CANopen master module	TWD NC01M	TwidoSuite programming software (including Bluetooth VW3 A8114 bridge)	TWD BTFU10..
SubD9 connector	TSX CANKCDF90		



SubD9 connector
with 2 outputs



Magelis XBT N



Compact display units	XBT N200	XBT N400	XBT N410	XBT N401
Lines	2	4	4	4
Power supply	5 VDC	5 VDC	24 VDC	24 VDC
3-colour backlighting	-	-	-	•

Configuration software	XBT L1001M
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Connection cables (Modbus)	XBT Z9780	XBT Z9680
Compatibility	XBT N200/400	XBT N401/410
Length (m)	2,5	2,5

Accessories



Bus cable (free wires, free wires)	TSX CANCA50
Length (m)	50
SubD9 connector	TSX CANKCDF90



M12 connectors	FTX CN12F5	FTX CN12M5
Type	female	male
7/8 connectors for 24VDC power supply cables	FTX C78F5	FTX C78M5
Type	female	male
Y splitters for M12 connectors	FTX CY1208	FTX CY1212
I/O side connectors	2 x M8	2 x M12

Indicate in the circle the number of references ordered



Altivar 31

Variable speed drives (single-phase power supply 200...240V)	ATV 31H018M2	ATV 31H037M2	ATV 31H055M2	ATV 31H075M2	ATV 31H011M2	ATV 31H015M2	ATV 31H022M2					
	0,18	0,37	0,55	0,75	1,1	1,5	2,2					
Variable speed drives (three-phase power supply 380...500V)	ATV 31H037N4	ATV 31H055N4	ATV 31H075N4	ATV 31H11N4	ATV 31H15N4	ATV 31H22N4	ATV 31H30N4	ATV 31H40N4	ATV 31H55N4	ATV 31H75N4	ATV 31D11N4	ATV 31D15N4
	0,37	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	11	15

Lexium 05

Servo drives	LXM 05AD10F1	LXM 05AD17F1	LXM 05AD28F1	LXM 05AD10M2	LXM 05AD17M2	LXM 05AD28M2	LXM 05AD10M3X	LXM 05AD17M3X	LXM 05AD42M3X	LXM 05AD14N4	LXM 05AD22N4	LXM 05AD34N4	LXM 05AD57N4
	10	17	28	10	17	28	10	17	42	14	22	34	57
Single-phase power supply 110...120 VAC													
Single-phase power supply 200...240 VAC													
Three-phase power supply 200...240 VAC													
Three-phase power supply 380...480 VAC													

Bus distribution cables (2 RJ45 connectors)	VWC ANCARR03	VWC ANCARR1
	0,3	1

Configuration software PowerSuite	VW3 A8104
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Bus cable (free wires, free wires)	TSX CANCA50	IP20 distribution box	VW3 CANTAP2
	50		

PC connection kit	VW3 A8106
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Advantys OTB

Bus cable (free wires, free wires)	TSX CANCA50
	50
SubD9 connector	TSX CANKCDF90

IP20 distributed I/Os	OTB 1CODM9LP
	12
Number of inputs Number of outputs	8 (6 relay/2 transistor)
Configuration software Advantys Lite	FTX ES00

Advantys FTB

Bus connection cables (1 M12 connector, free wires)	FTX CN3130		FTX CN3150													
	Length (m)		3	5												
24VDC power supply connection cables (1 7/8 connector, free wires)	FTX DP2115		FTX DP2130		FTX DP2150											
	Length (m)		1,5	3	5											
IP67 monobloc I/O splitters	FTB 1CN08E08SP0		FTB 1CN12E04SP0		FTB 1CN16EP0		FTB 1CN16EM0		FTB 1CN16CP0		FTB 1CN16CM0		FTB 1CN08E08CM0			
	Number of inputs		8		12		16		16		0...16		0...16		8 + 0...8	
	Number of outputs		8		4		-		-		0...16		0...16		0...8	
	Enclosure type		plastic		plastic		plastic		metal		plastic		metal		metal	
Bus distribution cables (2 M12 connectors)	FTX CN3203		FTX CN3206		FTX CN3210		FTX CN3220		FTX CN3230		FTX CN3250					
	Length (m)		0,3		0,6		1		2		3		5			
24VDC power supply distribution cables (2 7/8 connectors)	FTX DP2206		FTX DP2210		FTX DP2220		FTX DP2250		Configuration software Advantys Lite				FTX ES00			
	Length (m)		0,6		1		2						5			
Line terminator with 1 M12 connector	FTX CNTL12															

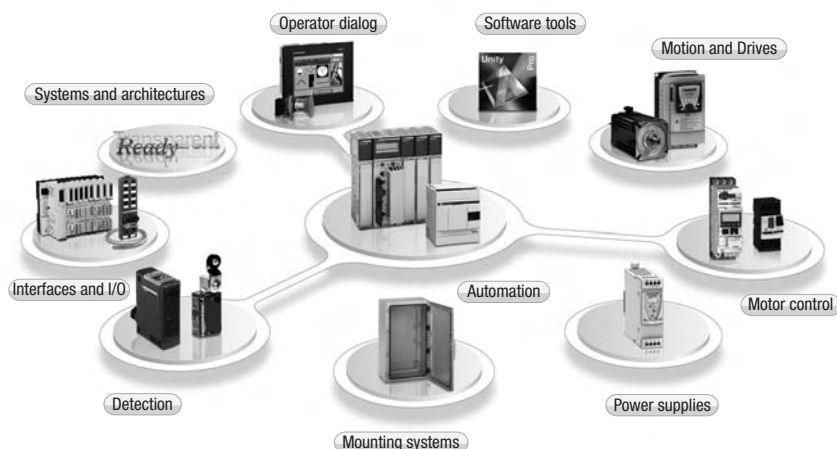
Configuration software Advantys Lite	FTX ES00
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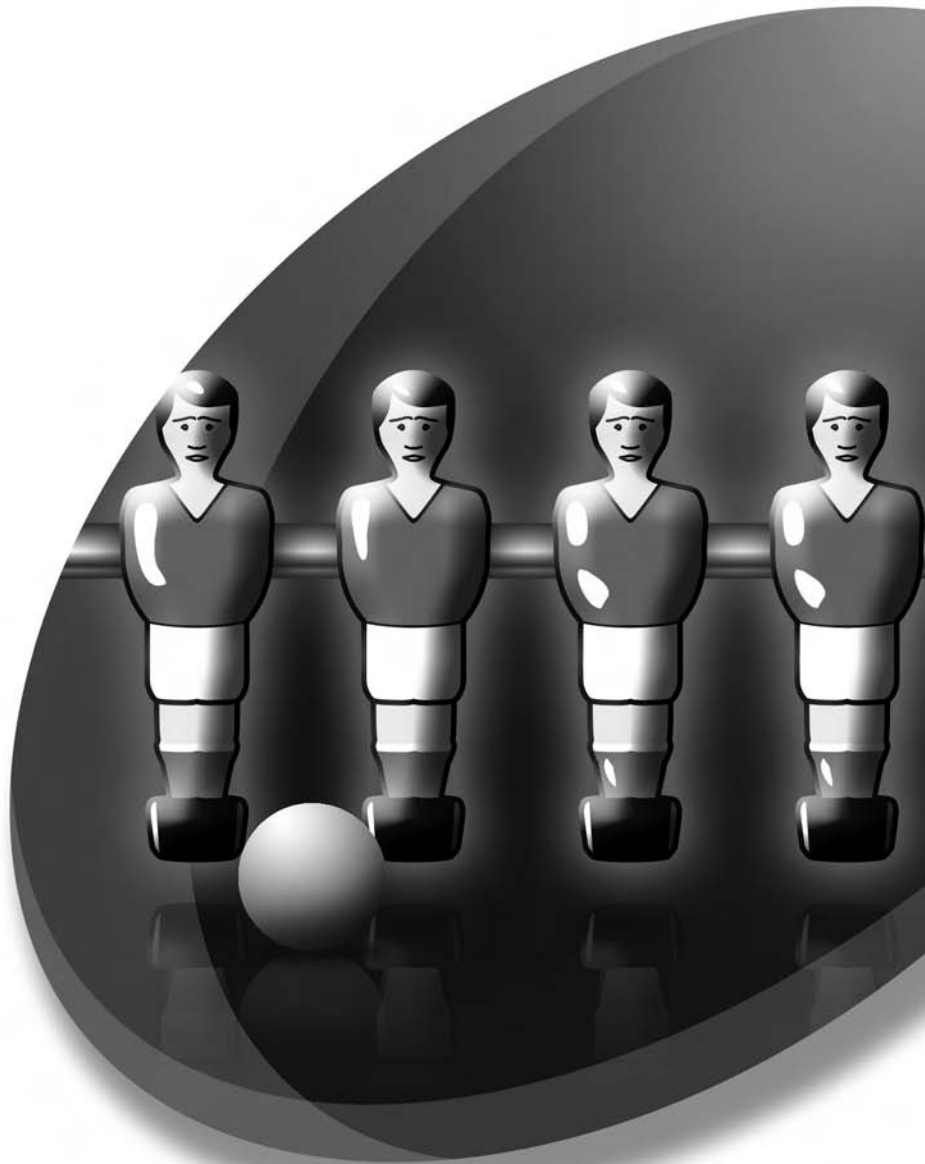
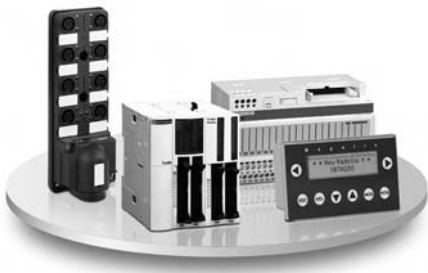
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Simply Smart!

Prewired solution

Twido & Advantys Telefast

The winning association



Name _____

Company _____

Function _____

Address _____

Date _____

Signature

Company stamp



Indicate in the circle the number of references ordered

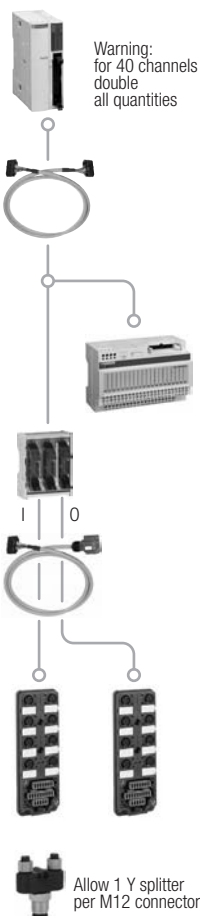
...for Twido modular bases





Twido

IP20: Advantys Telefast ABE 7

IP67: Advantys Telefast ABE 9

IP 67 accessories



	TWD LMDA 20DTK		TWD LMDA 40DTK		TwidoSuite programming software		TWD BTFU10..	
Modular bases								
Number of inputs	12		24					
Number of outputs	8		16					
Connection cables	ABF T26B050		ABF T26B100		ABF T26B200			
Length (m)	0,5		1		2			
IP20 sub-bases	ABE 7B20MPN20		ABE 7B20MPN22		ABE 7B20MRM20			
Number of inputs	12		12		12			
Number of outputs	8		8		8 (2 transistor/6 relay)			
LED per channel	-		•		-			
Fuse per output channel	-		•		-			
Distribution sub-base	ABE 7ACC09							
Connection cables	ABF 9TP6E300		ABF 9TP6E500		ABF 9TP6E1000			
Length (m)	3		5		10			
IP67 passive splitters	ABE 9C1240M		ABE 9C1241M		ABE 9C1280M		ABE 9C1281M	
Number of inputs	-		-		16		16	
Number of outputs	8		8		-		-	
LED per channel	-		•		-		•	
Number of M12 connectors (2 signals per M12 connector)	4		4		8		8	
Y splitters	FTX CY1208		FTX CY1212					
I/O side connectors	2xM8		2xM12					

...for Twido I/O extension modules

Twido

IP20: Advantys Telefast ABE 7

IP67: Advantys Telefast ABE 9

IP 67 accessories



I/O extension modules	TWD DDI16DK		TWD DDI32DK		TWD DD016TK		TWD DD032TK					
Number of inputs	16		32		-		-					
Number of outputs	-		-		16		32					
Connection cables	ABF T20E050		ABF T20E100		ABF T20E200							
Length (m)	0,5		1		2							
IP20 sub-bases	ABE 7E16EPN20		ABE 7E16SPN20		ABE 7E16SPN22		ABE 7E16SRM20					
Number of inputs	16		-		-		-					
Number of outputs	-		16		16		16 relais					
LED per channel	-		-		•		-					
Fuse per output channel	-		-		•		-					
Connection cables	ABF 9TP8E300		ABF 9TP8E500		ABF 9TP8E1000		ABF 9TP8S300		ABF 9TP8S500		ABF 9TP8S1000	
Length (m)	3		5		10		3		5		10	
Compatibility	DDI		DDI		DDI		DD0		DD0		DD0	
IP67 passive splitters	ABE 9C1280M		ABE 9C1281M									
Number of channels	16		16									
LED	-		•									
Number of M12 connectors (2 signals per M12 connector)	8		8									
Y splitters	FTX CY1208		FTX CY1212									
I/O side connectors	2xM8		2xM12									

Communication solution
Zelio Logic & Com Interface
The winning association



Simply Smart!

Leveraging
ingenuity
and intelligence
for **ease of use**

Zelio Logic & Com Interface

Simple, compact and open

Oriented to simple, compact and communicative small machines the smart relays Zelio Logic, communication interface module, GSM modem, XBT N and ATV 11 speed drive contribute to significantly improve reliability, communication and machine safety by offering high communication skills.

Now their association constitute a reliable solution of communication in term of security and reliability for devices and simple compact and small Machines.

- 1 Power supply
Phaseo
ABL8...
- 2 Programmable relay
Zelio Logic
SR3 B...
- 3 Modbus interface extension
Zelio Logic
SR3 MBU01BD
- 4 Analog I/O modules
Zelio Logic
SR3 XT...
- 5 Modem communication interface
Zelio Logic
SR2 COM01
- 6 GSM Modem Wavecom
Zelio Logic
SR2 MOD..
- 7 Display unit
Magelis
XBT N...
- 8 Variable speed drive
Altivar
ATV 11...
- 9 Photoelectric sensor
Osiris
XU...
- 10 Electronic sensors
Nautilus
XM...
- 11 Limit switches
Osiswitch
XS...
- 12 Proximity switch
Osiprox
XS...



2 Zelio logic

- 1Backlit LCD display, the largest on the market share ; 4 lines of 18 characters and 1 line of icons
- Power supply input 12, 24V DC ; 24V AC or 100-240V AC
- Zelio logic modular: 2 bases, 10 & 26 I/O expandable up to 40 I/O
- Real programming using FDB (Functional Block Diagram) function block or contact language (ladder)

3 5 Communicative Interface

- 12...24V DC
- Functions
 - Alarm sending
 - Receipt of instructions
 - Remote dialog
- 2 types of modem: Analog (PSTN) modem, GSM modem

Zelio Logic & com Interface advantages

High Communication Skills

With the modem communication interface, monitor and remotely your installations

- Avoid control on-site visits
- Perform pre-diagnostics
- Send Alert by SMS
- Organize yours alarms thanks to Zelio logic software



Zelio & Zelio com applications

Industry

Textile machines - Packaging machines - recycling machines - Woodworking machines.

Building/Services

Door, awning, roller blind automated systems - Heating and air conditioning systems.

Commercial equipment targets

Automatic washing - Ticket vending machines - Automatic dispensers - Display scrolling advertising panels.

Other market segments

Swimming pools - Generator units - Solar energy management systems.

Zelio Logic & Altivar advantages

Large offer of variable speed drives

ATV 11, 21, 31 constitute a full range of speed drives for simple and compact machines

- Large range of power
- Adapted to simple machines



4 Analogue I/O extension modules

- Analog inputs/outputs = 4
- 24V DC

6 Modem GSM

- Type Wavecom Fastrack dual band 900/1800MHz
- 12....24V DC

8 ATV 11

- 0.18 to 2.2KW
- Power supply 100...120V DC / 200...240V DC single phase
- 200...230V DC 3 phases, 50/60Hz
- Protection of drive & motor

Conveyor machine Benefits

- Manage the variable speed drives ATV 11 reference (with or without ramp) by Zelio Logic analog extension module
- Easy to wire and use
- Remote supervision

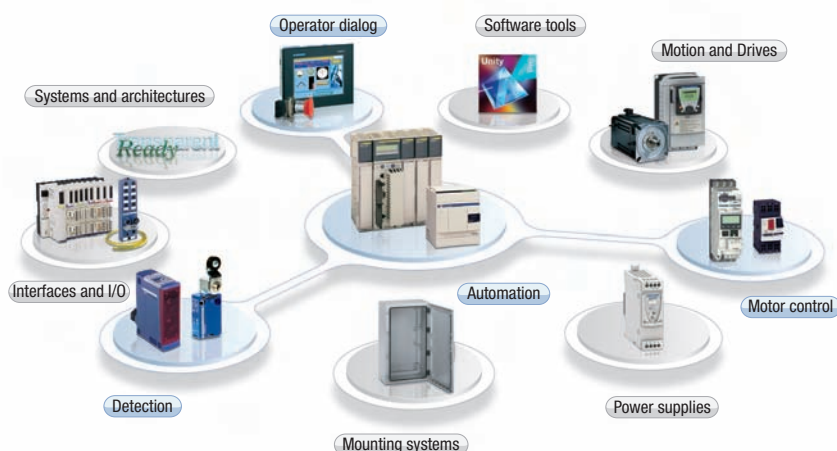




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