

IO-Link Absolute Rotary Encoder

At a Glance

- Simplifying control
- Enhancing efficiency
- Enabling Industry 4.0

Overview



ENA58TL Series

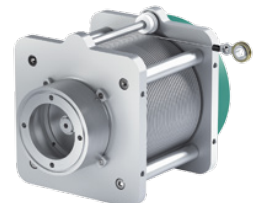
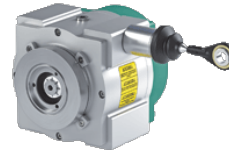
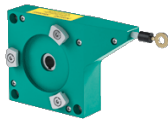
Models	Shaft Mounting	Flange Type	Connector Position	Shaft Diameter	A Item	Housing Diameter
ENA58TL-R06DA5-1516-IO-ABD01	Recess hollow		Axial	6 mm	■	58 mm
ENA58TL-R06DA5-1516-IO-RBD01	Recess hollow		Radial	6 mm	■	58 mm
ENA58TL-R10DA5-1516-IO-ABD01	Recess hollow		Axial	10 mm	■	58 mm
ENA58TL-R10DA5-1516-IO-RBD01	Recess hollow		Radial	10 mm	■	58 mm
ENA58TL-R12DA5-1516-IO-RBD01	Recess hollow		Radial	12 mm	■	58 mm
ENA58TL-S06SA5-1516-IO-ABD01	Solid	Servo	Axial	6 mm	■	58 mm
ENA58TL-S06SA5-1516-IO-RBD01	Solid	Servo	Radial	6 mm	■	58 mm
ENA58TL-S10SA5-1516-IO-ABD01	Solid	Servo	Axial	10 mm	■	58 mm
ENA58TL-S06CA5-1516-IO-ABD01	Solid	Clamping	Axial	6 mm	■	58 mm
ENA58TL-S10CA5-1516-IO-ABD01	Solid	Clamping	Axial	10 mm	■	58 mm
ENA58TL-S10CA5-1516-IO-RBD01	Solid	Clamping	Radial	10 mm	■	58 mm

ENA36TL Series

Models	Shaft Mounting	Flange Type	Connector Position	Shaft Diameter	A Item	Housing Diameter
ENA36TL-R06DA5-1516-IO-ABD01	Recess hollow		Axial	6 mm	■	36 mm
ENA36TL-R06DA5-1516-IO-RBD01	Recess hollow		Radial	6 mm	■	36 mm
ENA36TL-S06SA5-1516-IO-ABD01	Solid	Servo	Axial	6 mm	■	36 mm
ENA36TL-S06SA5-1516-IO-RBD01	Solid	Servo	Radial	6 mm	■	36 mm

Your automation, our passion.

Cable Pulls



Model Number	ECN10	ECN20	ECN30	ECN40
Description	Lower cost, compact, direct encoder coupling, maximum length 10 m	Industrial, maximum length 5 m	Maximum flexibility with various accessories, maximum length 60 m	Harsh conditions, open cable system, maximum length 20 m

Absolute Rotary Encoder Accessories

Flexible Couplings



Model Number	9401	KW	9409	9410
Description	Spring steel coupler	Helix coupler	Bellows coupler	Precision coupler

Measuring Wheels



Model Number	MW9101	MW9102	MW9108	MW9109
Description	Smooth Hytrel, 500 mm circumference	Dimpled rubber, 500 mm circumference	Smooth Hytrel, 200 mm circumference	Dimpled rubber, 200 mm circumference

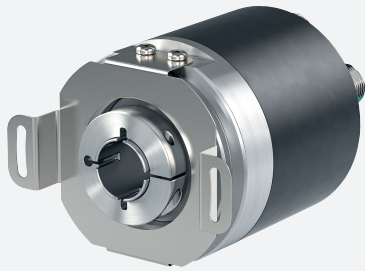
Cordsets



Model Number	V15-G-1M-PUR-ABG-V15-G	V15-G-2M-PUR-ABG-V15-G	V15-G-5M-PUR-ABG-V15-G
Description	M12, 5-pin, shielded, 1 m length cordset	M12, 5-pin, shielded, 2 m length cordset	M12, 5-pin, shielded, 5 m length cordset

Absolute encoders

ENA58TL-R***-IO-Link



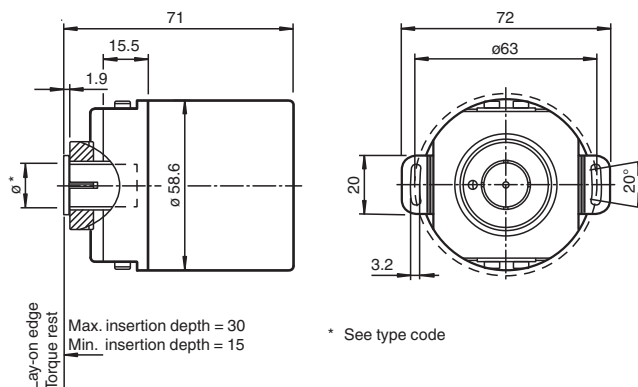
- Absolut rotary encoder of the innovative Pure Line
- Recessed hollow shaft
- IO-Link Interface for process data, parameterization and diagnosis
- Suitable for condition monitoring
- Measuring range, direction of rotation and switching signals programmable
- Free of wear magnetic sampling
- High resolution and accuracy
- Status LEDs



Function

Absolute encoders with IO Link are high precision encoders with internal magnetic sampling. The integrated IO Link interface offers an optimal adaption to different applications through parameterization as well as process data transfer and condition monitoring.

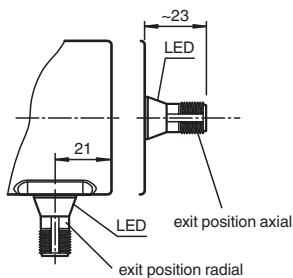
Dimensions



Recessed hollow shaft

Connections
Dimensions in mm

Connector M12



Technical Data

General specifications

Detection type	magnetic sampling
Device type	Absolut rotary encoder as Pure Line
Linearity error	$\leq \pm 0.1^\circ$
UL File Number	E223176 "For use in NFPA 79 Applications only", if UL marking is marked on the product.

Functional safety related parameters

MTTF _d	566 a at 40 °C
Mission Time (T _M)	20 a
L ₁₀	5 E+8 revolutions at 24/198 N axial/radial shaft load
Diagnostic Coverage (DC)	0 %

Indicators/operating means

LED STATUS	LED green flashing with short break (1 Hz) - IO-Link mode
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Electrical specifications

Operating voltage	U _B	18 ... 30 V DC
No-load supply current	I ₀	max. 50 mA
Power consumption	P ₀	approx. 1.5 W
Time delay before availability	t _v	< 1 s

Interface

Interface type	IO-Link
IO-Link Revision	1.1
Device profile	Identification & Diagnosis - I&D
Resolution	
Single turn	up to 16 Bit programmable
Multiturn	up to 15 Bit programmable
Overall resolution	up to 31 Bit programmable
Process data	Input 12 Byte - measurement value 4 Byte - resolution 16 Bit - auxiliary measurement value 4 Byte - switching signals 2 Bit - diagnosis signals 2 Bit - status data
Vendor ID	1 (0x0001)
Device ID	5243905 (0x500401), 5243906 (0x500402), 5243909 (0x500405), 5243910 (0x500406)
Transfer rate	COM 3 (230.4 kBaud)
Min. cycle time	1.5 ms
SIO mode support	no
Compatible master port type	Class A Class B (use 3-pole adapter or 3-wire cable)

Connection

Connector	M12 connector, 5 pin , A-coded
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Standard conformity

Degree of protection	DIN EN 60529, IP65, IP67
Communication interface	IEC 61131-9 / IO-Link V1.1.2
Climatic testing	DIN EN 60068-2-78, no moisture condensation
Emitted interference	EN 61000-6-4:2007
Noise immunity	EN 61000-6-2:2005
Shock resistance	DIN EN 60068-2-27, 100 g, 6 ms
Vibration resistance	DIN EN 60068-2-6, 10 g, 10 ... 1000 Hz

Approvals and certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source , if UL marking is marked on the product.
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Ambient conditions

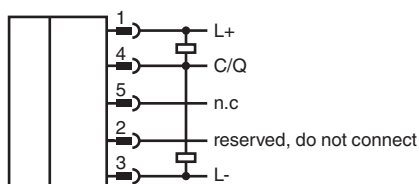
Operating temperature	-40 ... 85 °C (-40 ... 185 °F)
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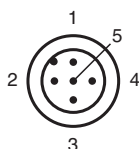
Technical Data

Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	98 % , no moisture condensation
Mechanical specifications	
Material	
Housing	Zinc plated steel, painted
Flange	Aluminum
Shaft	Stainless steel
Mass	approx. 370 g
Rotational speed	max. 12000 min ⁻¹
Moment of inertia	< 30 gcm ²
Starting torque	< 3 Ncm
Shaft load	
Axial	24 N
Radial	198 N
Angle offset	± 0.9 °
Axial offset	± 0.3 mm static; ± 0,1 mm dynamic
Radial offset	± 0.5 mm static; &lusmn 0,2 mm dynamic

Connection



Connection Assignment



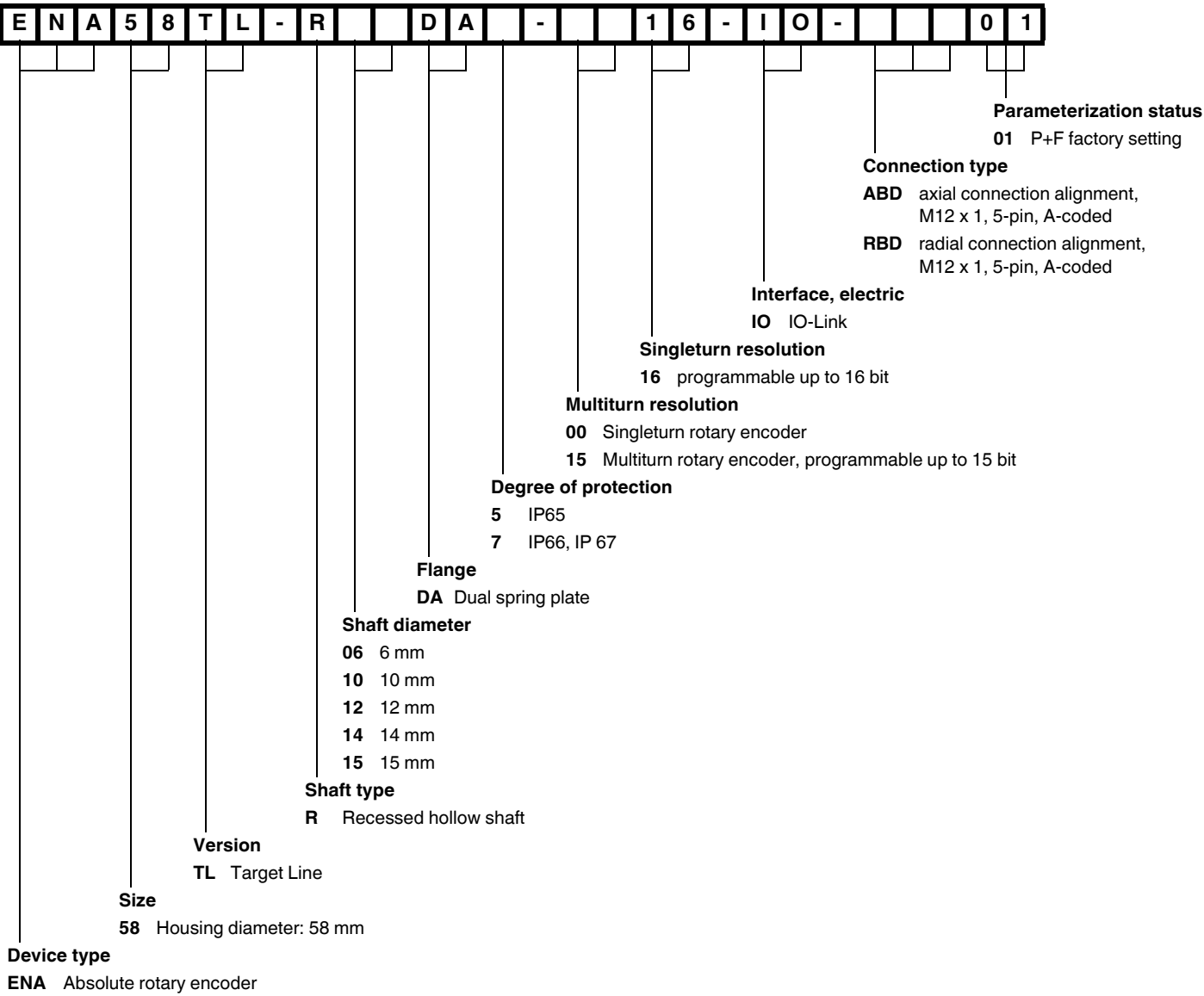
Accessories

	ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
	V1-G-0,6M-PUR-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable grey
	V15-G-1M-PUR-V15-G	Cordset M12 socket straight to M12 plug straight A-coded, 5-pin, PUR cable grey
	ACC-PACK-ABS-_S_58 ø15	Accessories set for Ø58 absolut rotary encoder with recessed hollow shaft 15 mm

Accessories

	ACC-PACK-ABS-_S_58 ø14	Accessories set for Ø58 absolut rotary encoder with recessed hollow shaft 14 mm
	ACC-PACK-ABS-_S_58 ø12	Accessories set for Ø58 absolut rotary encoder with recessed hollow shaft 12 mm
	ACC-PACK-ABS-_S_58 ø10	Accessories set for Ø58 absolut rotary encoder with recessed hollow shaft 10 mm
	ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	ICE2-8IOL-G65L-V1D	EtherNet/IP IO-Link master with 8 inputs/outputs
	ICE2-8IOL-K45P-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, push-in connectors
	ICE2-8IOL-K45S-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, screw terminal
	ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
	ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, push-in terminals
	ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, screw terminal

Type Code



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Absolute encoders

ENA58TL-S***-IO-Link

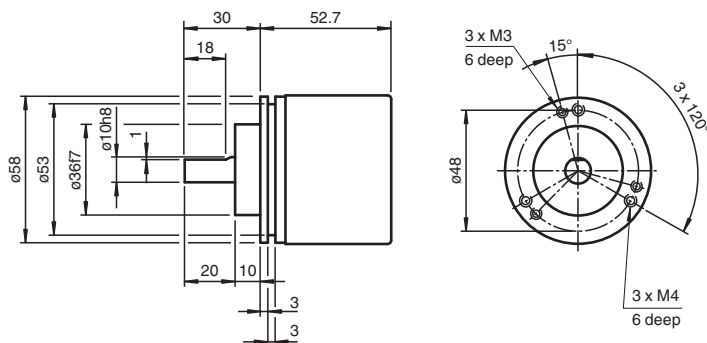
- Absolut rotary encoder of the innovative Pure Line
- Solid shaft
- IO-Link Interface for process data, parameterization and diagnosis
- Suitable for condition monitoring
- Measuring range, direction of rotation and switching signals programmable
- Free of wear magnetic sampling
- High resolution and accuracy
- Status LEDs



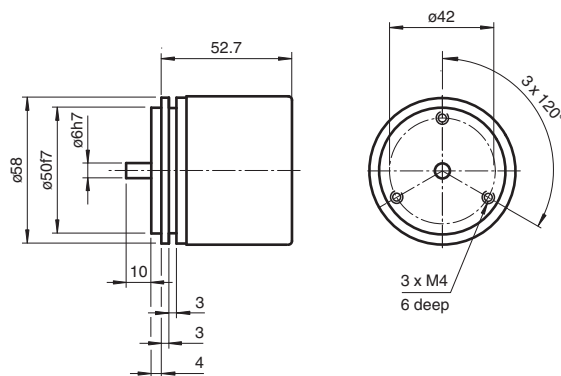
Function

Absolute encoders with IO Link are high precision encoders with internal magnetic sampling. The integrated IO Link interface offers an optimal adaption to different applications through parameterization as well as process data transfer and condition monitoring.

Dimensions



Clamping flange

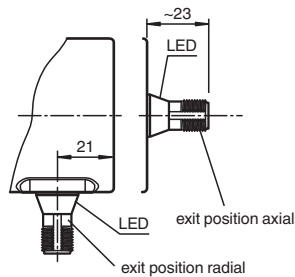


Servo flange

Connections

Dimensions in mm

Connector M12



Technical Data

General specifications

Detection type	magnetic sampling
Device type	Absolut rotary encoder as Pure Line
Linearity error	$\leq \pm 0.1^\circ$
UL File Number	E223176 "For use in NFPA 79 Applications only" , if UL marking is marked on the product.

Functional safety related parameters

MTTF _d	566 a at 40 °C
Mission Time (T _M)	20 a
L ₁₀	420 E+8 revolutions at 40/110 N axial/radial shaft load
Diagnostic Coverage (DC)	0 %

Indicators/operating means

LED STATUS	LED green flashing with short break (1 Hz) - IO-Link mode
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Electrical specifications

Operating voltage	U _B	18 ... 30 V DC
No-load supply current	I ₀	max. 50 mA
Power consumption	P ₀	approx. 1.5 W
Time delay before availability	t _v	< 1 s

Interface

Interface type	IO-Link
IO-Link Revision	1.1
Device profile	Identification & Diagnosis - I&D
Resolution	
Single turn	up to 16 Bit programmable
Multiturn	up to 15 Bit programmable
Overall resolution	up to 31 Bit programmable
Process data	Input 12 Byte - measurement value 4 Byte - resolution 16 Bit - auxiliary measurement value 4 Byte - switching signals 2 Bit - diagnosis signals 2 Bit - status data
Vendor ID	1 (0x0001)
Device ID	5243907 (0x500403), 5243908 (0x500404), 5243911 (0x500407), 5243912 (0x500408)
Transfer rate	COM 3 (230.4 kBaud)
Min. cycle time	1.5 ms
SIO mode support	no
Compatible master port type	Class A Class B (use 3-pole adapter or 3-wire cable)

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

 Pepperl+Fuchs Group
www.pepperl-fuchs.com

 USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

 Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

 Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

Technical Data

Connection

Connector	M12 connector, 5 pin , A-coded
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Standard conformity

Degree of protection	DIN EN 60529, IP65, IP67
Communication interface	IEC 61131-9 / IO-Link V1.1.2
Climatic testing	DIN EN 60068-2-78, no moisture condensation
Emitted interference	EN 61000-6-4:2007
Noise immunity	EN 61000-6-2:2005
Shock resistance	DIN EN 60068-2-27, 100 g, 6 ms
Vibration resistance	DIN EN 60068-2-6, 10 g, 10 ... 1000 Hz

Approvals and certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source , if UL marking is marked on the product.
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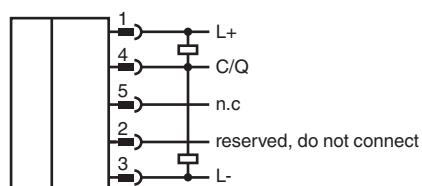
Ambient conditions

Operating temperature	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	98 % , no moisture condensation

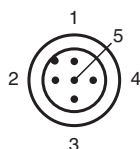
Mechanical specifications

Material	
Housing	Zinc plated steel, painted
Flange	Aluminum
Shaft	Stainless steel
Mass	approx. 350 g
Rotational speed	max. 12000 min ⁻¹
Moment of inertia	< 30 gcm ²
Starting torque	< 3 Ncm
Shaft load	
Axial	40 N
Radial	110 N

Connection



Connection Assignment



Accessories

	ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
	V1-G-0,6M-PUR-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable grey
	V15-G-1M-PUR-V15-G	Cordset M12 socket straight to M12 plug straight A-coded, 5-pin, PUR cable grey
	9401 6*10	Spring steel coupling
	9401 6*6	Spring steel coupling
	9402 6*6	Spring steel coupling
	9404 6*6	Spring disk coupling
	9409 6*10	Bellows coupling
	9409 6*6	Bellows coupling
	9409 6*8	Bellows coupling
	9410 6*6	Precision coupling
	9460 6*6	Stainless steel bellows coupling
	KW-6/10	Helical coupling
	KW-6/6	Helical coupling
	KW-6/8	Helical coupling
	9108, 6	Measuring wheel
	9109, 6	Measuring wheel for shaft diameter 6 mm
	9110, 6	Measuring wheel for shaft diameter 6 mm
	9113, 6	Measuring wheel for shaft diameter 6 mm

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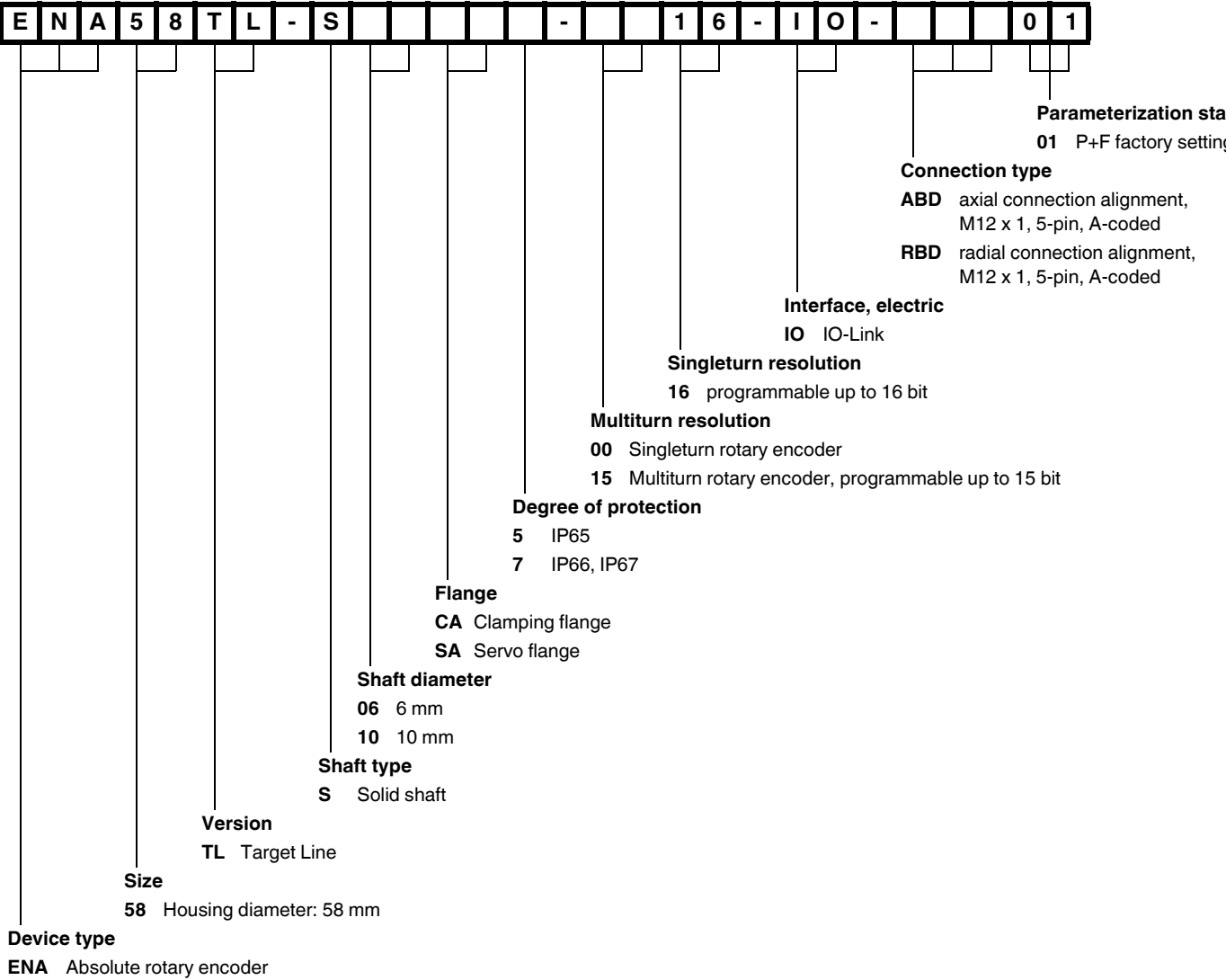
Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.comUSA: +1 330 486 0001
fa-info@us.pepperl-fuchs.comGermany: +49 621 776 1111
fa-info@de.pepperl-fuchs.comSingapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com **PEPPERL+FUCHS**

Accessories

	MBT-36ALS	Spring-loaded mounting bracket with a diameter of 36 mm
	MBT-36ALS120	Spring arm for larger spring deflections for diameter 58 rotary encoder with clamping flange
	ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	ICE2-8IOL-G65L-V1D	EtherNet/IP IO-Link master with 8 inputs/outputs
	ICE2-8IOL-K45P-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, push-in connectors
	ICE2-8IOL-K45S-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, screw terminal
	ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
	ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, push-in terminals
	ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, screw terminal

Type Code



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Absolute encoders

ENA36TL-R***-IO-Link

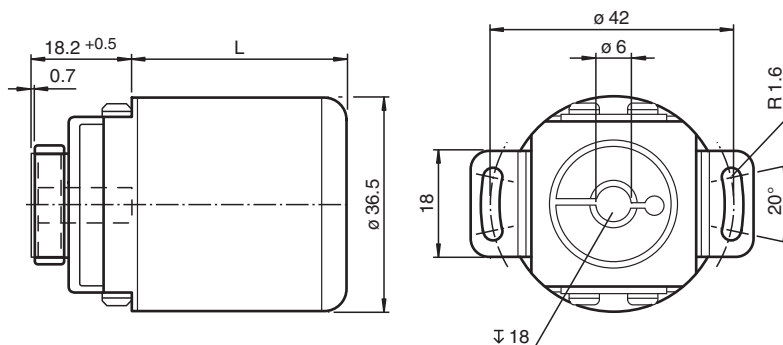
- Absolut rotary encoder of the innovative Pure Line
- Recessed hollow shaft
- IO-Link Interface for process data, parameterization and diagnosis
- Suitable for condition monitoring
- Measuring range, direction of rotation and switching signals programmable
- Free of wear magnetic sampling
- High resolution and accuracy
- Status LEDs



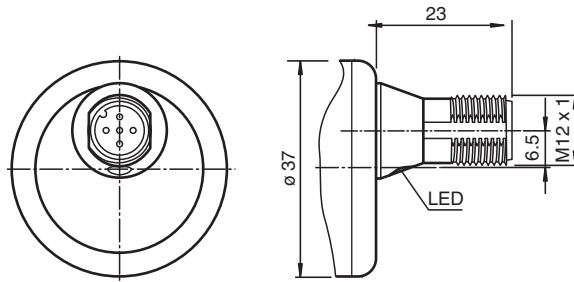
Function

Absolute encoders with IO Link are high precision encoders with internal magnetic sampling. The integrated IO Link interface offers an optimal adaption to different applications through parameterization as well as process data transfer and condition monitoring.

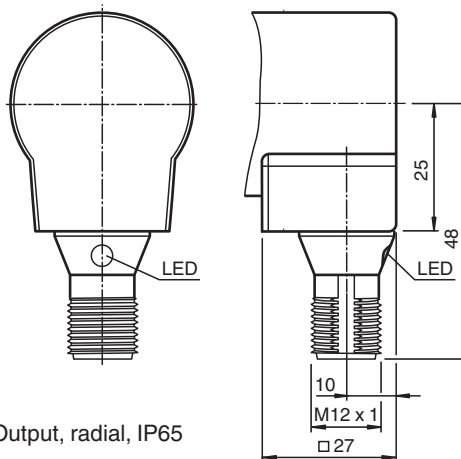
Dimensions



Degree of Protection	L [mm]	
	Axial Output	Radial Output
IP65	43	39



Output, axial, IP65



Output, radial, IP65

Technical Data

General specifications

Detection type	magnetic sampling
Device type	Absolut rotary encoder as Pure Line
Linearity error	$\leq \pm 0.1^\circ$
UL File Number	E223176 "For use in NFPA 79 Applications only", if UL marking is marked on the product.

Functional safety related parameters

MTTF _d	566 a at 40 °C
Mission Time (T _M)	20 a
L ₁₀	1035 E+8 revolutions at 19/44 N axial/radial shaft load
Diagnostic Coverage (DC)	0 %

Indicators/operating means

LED STATUS	LED green flashing with short break (1 Hz) - IO-Link mode
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Electrical specifications

Operating voltage	U _B	18 ... 30 V DC
No-load supply current	I ₀	max. 50 mA
Power consumption	P ₀	approx. 1.5 W
Time delay before availability	t _v	< 1 s

Interface

Interface type	IO-Link
IO-Link Revision	1.1
Device profile	Identification & Diagnosis - I&D
Resolution	
Single turn	up to 16 Bit programmable

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

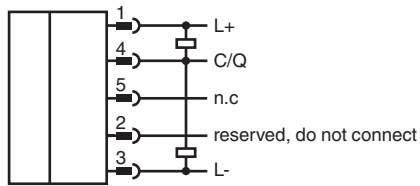
PEPPERL+FUCHS

Technical Data

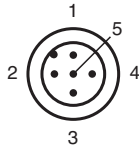
Multiturn	up to 15 Bit programmable
Overall resolution	up to 31 Bit programmable
Process data	Input 12 Byte - measurement value 4 Byte - resolution 16 Bit - auxiliary measurement value 4 Byte - switching signals 2 Bit - diagnosis signals 2 Bit - status data
Vendor ID	1 (0x0001)
Device ID	5243649 (0x500301), 5243650 (0x500302)
Transfer rate	COM 3 (230.4 kBaud)
Min. cycle time	1.5 ms
SIO mode support	no
Compatible master port type	Class A Class B (use 3-pole adapter or 3-wire cable)
Connection	
Connector	M12 connector, 5 pin , A-coded
Standard conformity	
Degree of protection	DIN EN 60529, IP65, IP67
Communication interface	IEC 61131-9 / IO-Link V1.1.2
Climatic testing	DIN EN 60068-2-78, no moisture condensation
Emitted interference	EN 61000-6-4:2007
Noise immunity	EN 61000-6-2:2005
Shock resistance	DIN EN 60068-2-27, 100 g, 6 ms
Vibration resistance	DIN EN 60068-2-6, 10 g, 10 ... 1000 Hz
Approvals and certificates	
UL approval	cULus Listed, General Purpose, Class 2 Power Source , if UL marking is marked on the product.
Ambient conditions	
Operating temperature	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	98 % , no moisture condensation
Mechanical specifications	
Material	
Housing	Zinc plated steel, painted
Flange	Aluminum
Shaft	Stainless steel
Mass	approx. 190 g
Rotational speed	max. 12000 min ⁻¹
Moment of inertia	< 18 gcm ²
Starting torque	< 3 Ncm
Shaft load	
Axial	19 N
Radial	44 N
Axial offset	± 0.3 mm static; ± 0,1 mm dynamic
Radial offset	± 0.5 mm static; &lusmn 0,2 mm dynamic

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Connection



Connection Assignment



Accessories

	ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
	V1-G-0,6M-PUR-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable grey
	V15-G-1M-PUR-V15-G	Cordset M12 socket straight to M12 plug straight A-coded, 5-pin, PUR cable grey
	ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	ICE2-8IOL-G65L-V1D	EtherNet/IP IO-Link master with 8 inputs/outputs
	ICE2-8IOL-K45P-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, push-in connectors
	ICE2-8IOL-K45S-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, screw terminal
	ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
	ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, push-in terminals
	ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, screw terminal

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Absolute encoders

ENA36TL-S***-IO-Link

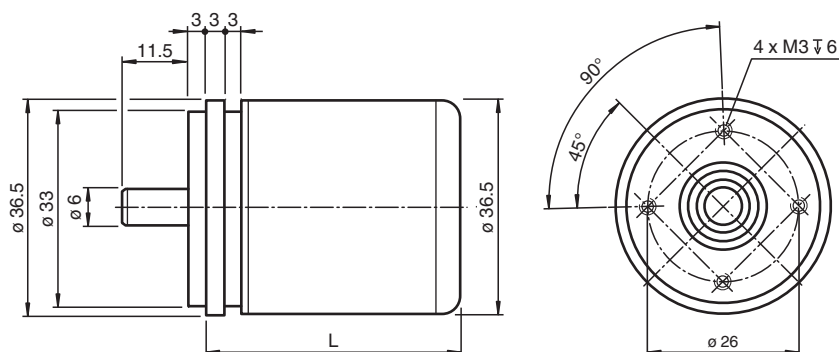
- Absolut rotary encoder of the innovative Pure Line
- Solid shaft
- IO-Link Interface for process data, parameterization and diagnosis
- Suitable for condition monitoring
- Measuring range, direction of rotation and switching signals programmable
- Free of wear magnetic sampling
- High resolution and accuracy
- Status LEDs



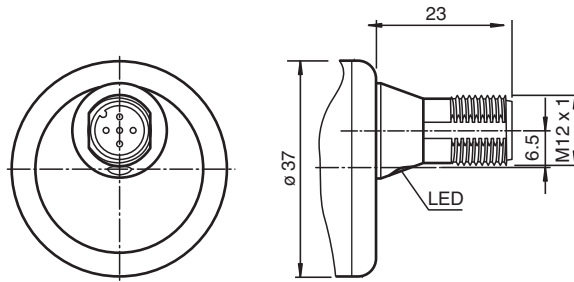
Function

Absolute encoders with IO Link are high precision encoders with internal magnetic sampling. The integrated IO Link interface offers an optimal adaption to different applications through parameterization as well as process data transfer and condition monitoring.

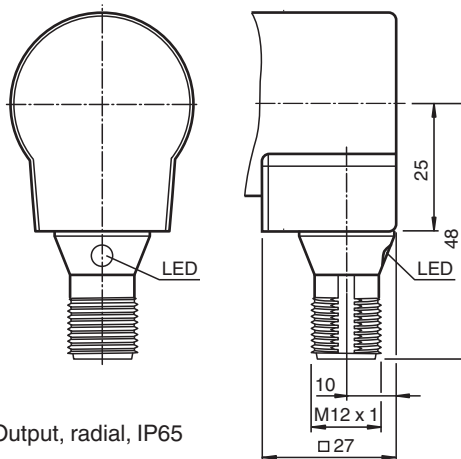
Dimensions



Degree of Protection	L [mm]	
	Axial Output	Radial Output
IP65	43	39



Output, axial, IP65



Output, radial, IP65

Technical Data

General specifications

Detection type	magnetic sampling
Device type	Absolut rotary encoder as Pure Line
Linearity error	$\leq \pm 0.1^\circ$
UL File Number	E223176 "For use in NFPA 79 Applications only", if UL marking is marked on the product.

Functional safety related parameters

MTTF _d	566 a at 40 °C
Mission Time (T _M)	20 a
L ₁₀	30 E+8 revolutions at 20/40 N axial/radial shaft load
Diagnostic Coverage (DC)	0 %

Indicators/operating means

LED STATUS	LED green flashing with short break (1 Hz) - IO-Link mode
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Electrical specifications

Operating voltage	U _B	18 ... 30 V DC
No-load supply current	I ₀	max. 50 mA
Power consumption	P ₀	approx. 1.5 W
Time delay before availability	t _v	< 1 s

Interface

Interface type	IO-Link
IO-Link Revision	1.1
Device profile	Identification & Diagnosis - I&D
Resolution	
Single turn	up to 16 Bit programmable

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

 Pepperl+Fuchs Group
www.pepperl-fuchs.com

 USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

 Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

 Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

Technical Data

Multiturn	up to 15 Bit programmable
Overall resolution	up to 31 Bit programmable
Process data	Input 12 Byte - measurement value 4 Byte - resolution 16 Bit - auxiliary measurement value 4 Byte - switching signals 2 Bit - diagnosis signals 2 Bit - status data
Vendor ID	1 (0x0001)
Device ID	5243651 (0x500303), 5243652 (0x500304)
Transfer rate	COM 3 (230.4 kBaud)
Min. cycle time	1.5 ms
SIO mode support	no
Compatible master port type	Class A Class B (use 3-pole adapter or 3-wire cable)

Connection

Connector	M12 connector, 5 pin , A-coded
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Standard conformity

Degree of protection	DIN EN 60529, IP65
Communication interface	IEC 61131-9 / IO-Link V1.1.2
Climatic testing	DIN EN 60068-2-78, no moisture condensation
Emitted interference	EN 61000-6-4:2007
Noise immunity	EN 61000-6-2:2005
Shock resistance	DIN EN 60068-2-27, 100 g, 6 ms
Vibration resistance	DIN EN 60068-2-6, 10 g, 10 ... 1000 Hz

Approvals and certificates

UL approval	cULus Listed, General Purpose, Class 2 Power Source , if UL marking is marked on the product.
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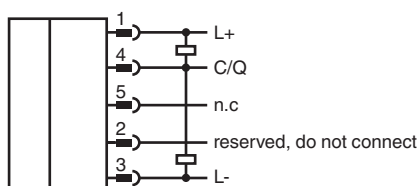
Ambient conditions

Operating temperature	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	98 % , no moisture condensation

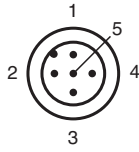
Mechanical specifications

Material	
Housing	Zinc plated steel, painted
Flange	Aluminum
Shaft	Stainless steel
Mass	approx. 195 g
Rotational speed	max. 12000 min ⁻¹
Moment of inertia	< 10 gcm ²
Starting torque	< 3 Ncm
Shaft load	
Axial	40 N
Radial	110 N

Connection



Connection Assignment



Accessories

	ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
	V1-G-0,6M-PUR-V1-G	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable grey
	V15-G-1M-PUR-V15-G	Cordset M12 socket straight to M12 plug straight A-coded, 5-pin, PUR cable grey
	ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	ICE2-8IOL-G65L-V1D	EtherNet/IP IO-Link master with 8 inputs/outputs
	ICE2-8IOL-K45P-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, push-in connectors
	ICE2-8IOL-K45S-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, screw terminal
	ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
	ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, push-in terminals
	ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, screw terminal

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