



JUMO dTRANS p35

Pressure Sensor with IO-Link

Application

- Process automation
- Machines for the food and beverage industry
- General mechanical and apparatus engineering

Brief description

The pressure sensor serves to measure relative and absolute pressure and monitor it in liquids and gases. The effect of the pressure on the pressure sensor generates a signal, which is amplified, digitalized, and processed.

The pressure sensor is equipped with an IO-Link interface according to specification 1.1. IO-Link supports bidirectional communication and is used to exchange process data, parameters, diagnostic information, and status messages. The two green LEDs are permanently lit as soon as voltage is supplied to the device. Once an IO-Link connection is established, the LEDs flash.

The switching behavior and the switching thresholds of the switching outputs (max. 2 pieces; p or n switching) can be individually configured - along with many other parameters. Any IO-Link master can be used for the configuration.

The pressure sensor is therefore suitable for use in plant and mechanical engineering in connections to automation systems. A variety of pressure connections and measuring ranges are available to the user.



Type 402058



Customer benefits

- IO-Link
 - Multi-vendor point-to-point connection
 - Open standard with maximum transparency to the field level (IEC 61131-9)
 - Inexpensive, pre-fabricated connecting cable (no wiring errors)
 - Simple and uniform wiring and startup thanks to standardized interface
- Industry 4.0: pervasive communication from the control to the sensors
 - Retrieval of process data and diagnostic information
 - Dynamic parameter changes
- More safety during sensor replacement
 - Automatic parameterization possible
 - Replacement with sensors of same type, but with different properties, can be detected
- Optimization of the production process through communication down to the lowest field level
- Reduction of mounting and startup times
- Reduction of maintenance and service costs with simultaneous increase in plant availability

Special features

- Small, compact, robust
- Stainless steel, fully welded
- Various process connections
- Hygienic connections
- Simple startup
- Easy sensor replacement
- Proven accuracy
- Connection via IO-Link master
- LED status display
- Also available as a temperature sensor with IO-Link; see data sheet 902915
- Optionally for raised medium temperature up to 200 °C (SIP and CIP capable)
- Optionally for mobile hydrogen applications (up to test pressure 1050 bar)

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Approval marks and certificates

	Designation Test facility Certificate no. Inspection basis Valid for	UL Underwriters Laboratories E201387 UL 61010-1, 3rd Ed. May 2012 revised 19 July 2019 and CAN/CSA-C22.2 No. 61010-1 (2012-05). 3rd Ed. with revision through 2018-11 Type 402058
	Designation Test facility Certificate no. Inspection basis Valid for	EHEDG EHEDG EHEDG-C2000058 Test report of the in-place cleanability test method Type 402058
	Designation Test facility Certificate no. Inspection basis Valid for	H2 ready – mobile hydrogen applications KIWA P000415366HGV19 CSA ANSI HGV 3.1:2022 Type 402058 with extra code 1160

Certificates for approved device versions are available for download on the manufacturer's website.

EHEDG conformity only in conjunction with EHEDG-approved process connections, ⇒ page 8.

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Technical data

Input

Measuring range and accuracy

Measuring range (MR)	Linearity ^a	Accuracy at 20 °C ^d -20 to +80 °C ^e		Long-term stability ^b	Overload capacity ^c	Burst pres- sure	Behavior at	
bar	% MSP ^f	% MSP	% MSP	% MSP per year	bar	bar	MR fallen be- low	MR exceed- ed
-400 to +400 mbar relative pressure	0.3	0.7	2	≤ 0.3	1	1.5	Linear up to -1.5 % MSP Error value: 1·10 ³⁷	Linear up to 5 % MSP Error value: 2·10 ³⁷
-1 bar to +1 bar relative pressure	0.3	0.6	1.8	≤ 0.2	4	8		
-1 bar to +2.5 bar relative pressure	0.3	0.5	1.3		16	24		
-1 bar to +5 bar relative pressure	0.3	0.5	1.2		40	60		
-1 bar to +12 bar relative pressure	0.25	0.5	1		100	150		
-1 bar to +30 bar relative pressure	0.2	0.5	1		100	150		
-1 bar to +100 bar relative pressure	0.2	0.5	1		300	400		
-1 bar to +250 bar relative pressure	0.5	0.7	1.2		500	2000		
-1 bar to +400 bar relative pressure	0.5	0.7	1.2		800	2000		
-1 bar to +600 bar relative pressure	0.5	0.7	1.2		1200	2500		

^a Linearity according to limit point setting

^b Reference conditions EN 61298-1

^c All pressure sensors are vacuum proof.

^d Includes: linearity, hysteresis, repeatability, deviation of measuring range start value and measuring range end value

^e Includes: linearity, hysteresis, repeatability, deviation of measuring range start value and measuring range end value, thermal effect on measuring range start and measuring span

^f MSP = measuring span

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Measuring range (MR)	Linearity ^a	Accuracy at		Long-term stability ^b	Overload capacity ^c	Burst pressure	Behavior at	
bar	% MSP ^f	20 °C ^d % MSP	-20 to +80 °C ^e % MSP	% MSP per year	bar	bar	MR fallen below	MR exceeded
0 to 1 bar absolute pressure	0.3	0.5	1.3	≤ 0.2	4	6	No detection	Linear up to 5 % MSP Error value: 2·10 ³⁷
0 to 2.5 bar absolute pressure	0.25	0.5	1.2		16	24		
0 to 5 bar absolute pressure	0.25	0.5	1.2		40	60		
0 to 12 bar absolute pressure	0.25	0.5	1		100	150		
0 to 30 bar absolute pressure	0.2	0.5	1		100	150		
0 to 100 bar absolute pressure	0.2	0.5	1		400	400		

^a Linearity according to limit point setting

^b Reference conditions EN 61298-1

^c All pressure sensors are vacuum proof.

^d Includes: linearity, hysteresis, repeatability, deviation of measuring range start value and measuring range end value

^e Includes: linearity, hysteresis, repeatability, deviation of measuring range start value and measuring range end value, thermal effect on measuring range start and measuring span

^f MSP = measuring span

Signal processing

Input filter	Digital filter, 2nd order; filter time constant can be set
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Measuring circuit monitoring

Process data invalid	IO-Link event configurable; appears in the process value as an error value
Measuring range overflow	
Measuring range underflow	
Device hardware fault	

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Output

Number	1 output in IO-Link operation (output signal according to IO-Link communication standard version 1.1; see section "Interface", Page 5) 2 outputs for switch operation (SIO mode; SIO = standard IO)
Switching functions configurable	Hysteresis function or window function Normally closed contact or normally open contact Output p-switching (PNP) or n-switching (NPN) Switch-on and switch-off delay
Switching current	≤100 mA per output
Voltage drop at switching transistor	≤ 2 V
Short-circuit proof	Yes (clocked)
Reverse polarity protected	Yes
Current limiting	Yes
Hysteresis	
For hysteresis function	Configurable
For window function	Fixed setting (symmetrical; ±0.25 % of the measuring range)
Switch-on, switch-off delay	0 to 100 s
Response time	
Switching output	≤7 ms
IO-Link	≤7 ms + IO-Link cycle time

Interface

Communication interface	IO-Link device V 1.1, downward compatible to V 1.0
Data transmission rate (baud rate)	COM 3 (230.4 kBaud)
Max. cable length	20 m, unshielded
Min. cycle time	2 ms
IO Device Description (IODD)	Depending on the ordered input range; available on the manufacturer's website www.jumo.de or at http://ioddfinder.io-link.com

Electrical data

Voltage supply	
In IO-Link operation	DC 18 to 32 V
In switch operation	DC 9.6 to 32 V
Nominal voltage	DC 24 V
Current consumption	
In idle mode	≤ 10 mA
In IO-Link operation	≤ 12 mA
In switch operation	≤ 250 mA (with 2 switching outputs)
Electrical safety	Protection rating III according to DIN EN 61140
Intended use	Pressure measurement in industrial plants

The auxiliary energy of the pressure transmitter must meet SELV requirements. Furthermore, the device must be equipped with an electrical circuit that meets the requirements of EN 61010-1 with regard to "Limited-energy circuits".

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Mechanical features

Materials	
Sensor	Stainless steel (membrane, welding ring: 316L)
High-pressure sensor	Stainless steel 630 (for pressure ranges > 100 bar)
Process connection	Stainless steel 316L or 316Ti
Housing	Stainless steel 304
Installation position	Any
Calibration position	Device upright, process connection at the bottom
Weight	Approx. 160 g

Environmental influences

Admissible temperatures	
Medium	-40 to +125 °C (standard)
Basic type extension	-40 to +200 °C
Extra code 1160	-40 to +120 °C
Ambient temperature	-40 to +85 °C (ambient temperature range of the head)
Storage	-40 to +85 °C
Resistance to climatic conditions	
During operation	≤100 % relative humidity without condensation on the outer skin of the device
During storage	≤90 % relative humidity without condensation
Climate class	3K7 according to DIN EN 60721-3-3
Admissible mechanical load	
Vibration resistance	10 g at 10 to 2000 Hz according to DIN EN 60068-2-6
Shock resistance	20 g for 11 ms according to DIN EN 60068-2-27 50 g for 1 ms according to DIN EN 60068-2-27
Process media	Liquid and gaseous media
Protection type	According to DIN EN 60529
With absolute pressure version	IP65/IP67
With relative pressure version	IP65
Electromagnetic compatibility	According to DIN EN 61326-2-3
Interference emission	Class B ^a
Interference immunity	Industrial requirement

^a The product is suitable for industrial use as well as for households and small businesses.

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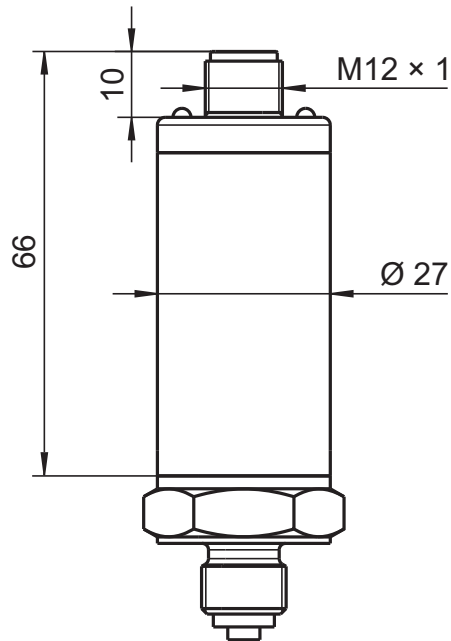
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Dimensions

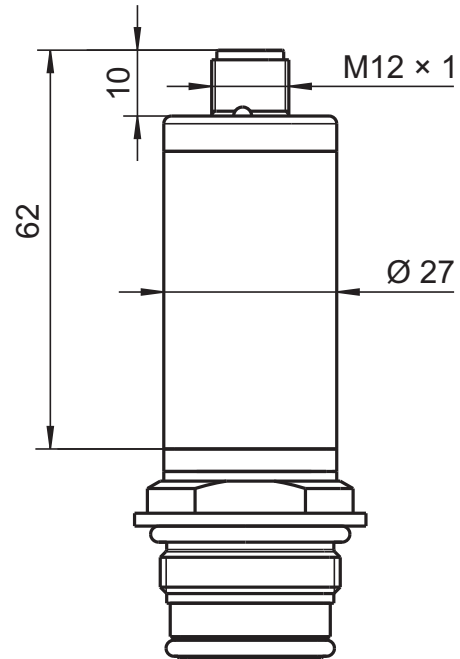
Type 402058/000-XXX-458-5XX-20-36/000

Non-front-flush versions: 502, 504, 511, 521, and 523;
Front-flush version: 571, 574, and 575;
Measuring range ≤ 100 bar



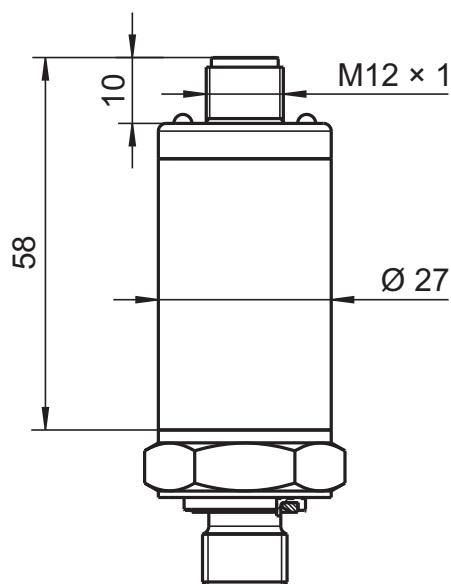
Type 402058/000-XXX-458-997-20-36/000

JUMO PEKA; measuring range ≤ 100 bar



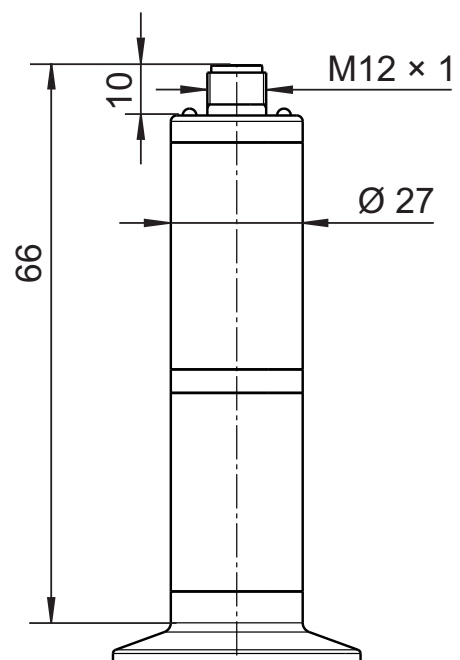
Type 402058/000-XXX-458-XXX-20-36/000

High-pressure version; measuring range > 100 bar



Type 402058/004-XXX-458-613-20-36/000

High-temperature version; measuring range ≤ 100 bar



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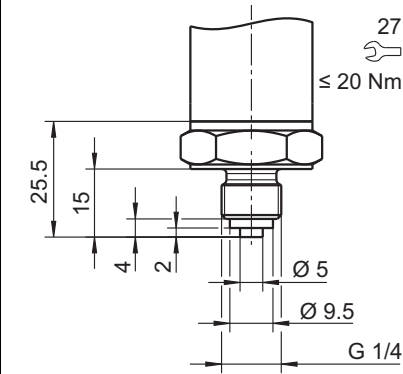
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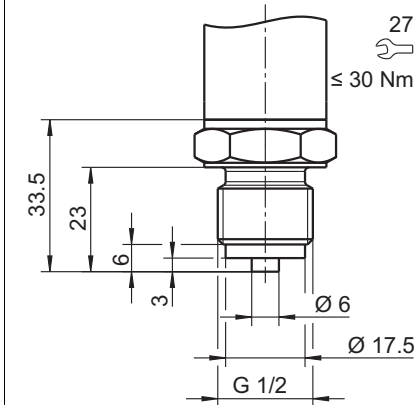


Process connections

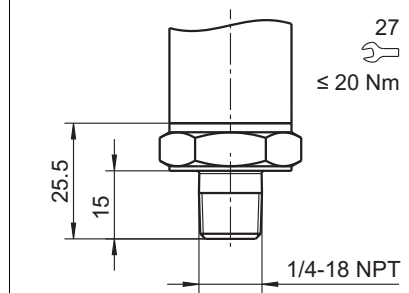
502
G 1/4 DIN EN 837



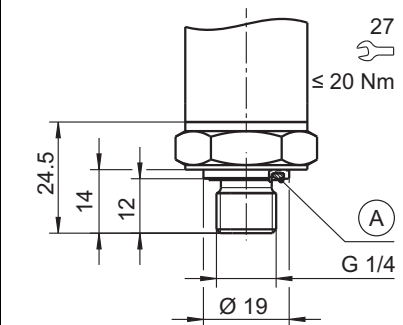
504
G 1/2 DIN EN 837



511
1/4-18 NPT DIN EN 837

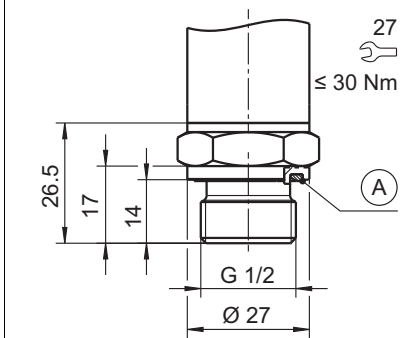


521
G 1/4 DIN 3852-11



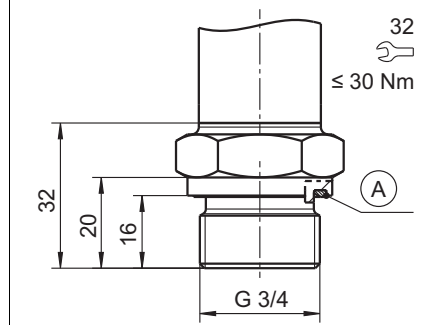
A Profile seal G 1/4

523
G 1/2 DIN 3852-11



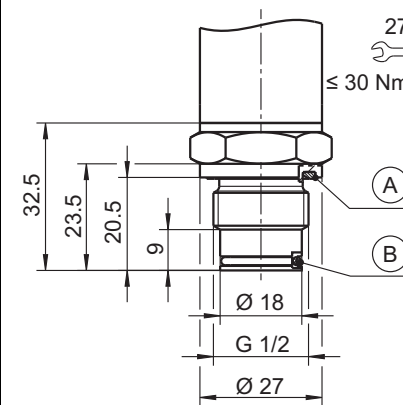
A Profile seal G 1/2

571
G 3/4 front-flush DIN 3852-11



A Profile seal G 3/4

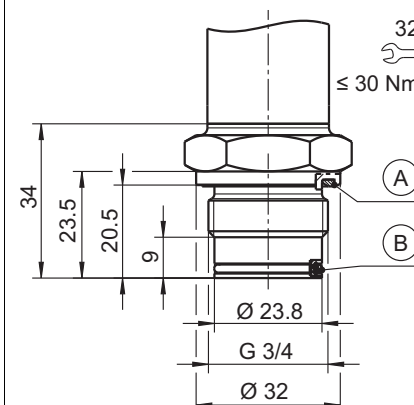
574
G 1/2 front-flush with double seal



A Profile seal G 1/2

B O-ring 15.1 x 1.6

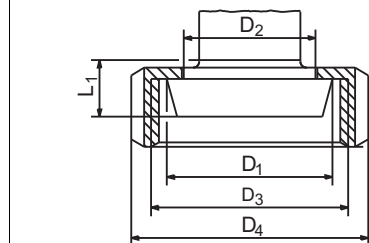
575
G 3/4 front-flush with double seal



A Profile seal G 3/4

B O-ring 20.35 x 1.78

603 to 607
Taper socket with union nut



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612 to 616 Clamping socket (clamp)	997 JUMO PEKA ^a

A O-ring 26 × 2.5

B O-ring 21 × 2.5

Hygienic process connection for adapter system JUMO PEKA (data sheet 409711)

^a PEKA is also certified according to EHEDG.

Process connection	DN DIN 32676	Ø D ₁	Ø D ₂	Ø D ₃	Ø D ₄	L ₁
603	20	36.5	30	RD 44 x 1/6"	54	14
604	25	44	35	RD 52 x 1/6"	63	16
605	32	50	41	RD 58 x 1/6"	70	16
606	40	56	48	RD 65 x 1/6"	78	16
607	50	68.5	61	RD 78 x 1/6"	92	17
612	10 15 20	27.5	34	-	-	-
613 ^a	25 32 40	43.5	50.5	-	-	-
616 ^a	50	56.5	64	-	-	-

^a Certified according to EHEDG.

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Process connection	Designation	Max. pressure	Temperature
571	G 3/4 front-flush DIN EN ISO 228-1	25 bar	-10 to +150 °C
		40 bar	-10 to +100 °C
574	G 1/2 front-flush with double seal	25 bar	-10 to +150 °C
		40 bar	-10 to +100 °C
575	G 3/4 front-flush with double seal	25 bar	-10 to +150 °C
		40 bar	-10 to +100 °C
603	Taper socket DN 20 DIN 11851 form SC/SD	40 bar	-10 to +140 °C
604	Taper socket DN 25 DIN 11851 form SC/SD	40 bar	-10 to +140 °C
605	Taper socket DN 32 DIN 11851 form SC/SD	40 bar	-10 to +140 °C
606	Taper socket DN 40 DIN 11851 form SC/SD	40 bar	-10 to +140 °C
607	Taper socket DN 50 DIN 11851 form SC/SD	25 bar	-10 to +140 °C
612	Clamping socket DN 10/15/20 DIN 32676 series A	25 bar	-10 to +140 °C
613	Clamping socket DN 25/32/40 DIN 32676 series A	25 bar	-10 to +140 °C
616	Clamping socket DN 50 DIN 32676 series A	16 bar	-10 to +140 °C
997	PEKA	25 bar	-10 to +200 °C
		40 bar	-10 to +100 °C

Specifications for pressure and temperature range according to DIN standard. The temperature range depends on the sealing material and the pressure range.

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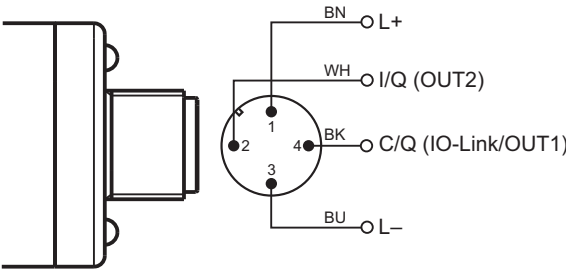
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Connection diagram

The connection diagram in the data sheet provides information on product selection.

For the electrical connection, only use the installation instructions or the operating manual.

Connection	Terminal assignment	
		
M12 x 1 round plug (A-coded, non-rotating)		
Switch operation		
Voltage supply DC 9.6 to 32 V	1 BN (brown) ^a 3 BU (blue)	L+ L-
Switching output 1	4 BK (black)	C/Q = OUT1
Switching output 2	2 WH (white)	I/Q = OUT2
IO-Link operation		
Voltage supply ^a DC 18 to 32 V	1 BN (brown) 3 BU (blue)	L+ L-
IO-Link	4 BK (black)	C/Q = IO-Link
Switching output 2	2 WH (white)	I/Q = OUT2
Potential equalization		
Functional bonding conductor FB ^b		

^a The color coding is **only** valid for A-coded standard cables!

^b The pressure sensor must be connected to the plant's potential equalization system via the process connection.

NOTE!

When using the device with UL approval, the user must make sure that the accessory he uses is also approved for a UL application (e. g. cable with UL approval AVL2/8 and/or cable with UL approval CYJV/7 or CYJV/8 or PVVA/7 or PVVA2/8, in each case approved for ambient temperatures > 90 °C).

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Connection examples

IO-Link operation with 1 switching output	Switch operation with 2 switching outputs
p switching (PNP)	p switching (PNP)
n switching (NPN)	n switching (NPN)

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JUMO UK LTD

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JUMO Process Control, Inc.

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Order details

	(1) Basic type
402058	JUMO dTRANS p35 – pressure sensor with IO-Link
	(2) Basic type extension
000	None
004	Raised medium temperature ^a
999	Special version
	(3) Input
447	-400 to +400 mbar relative pressure
449	-1 bar to +1 bar relative pressure
473	-1 bar to +2.5 bar relative pressure
482	-1 bar to +5 bar relative pressure
526	-1 bar to +12 bar relative pressure
527	-1 bar to +30 bar relative pressure
515	-1 bar to +100 bar relative pressure
508	-1 bar to +250 bar relative pressure
509	-1 bar to +400 bar relative pressure
516	-1 bar to +600 bar relative pressure
488	0 to 1 bar absolute pressure
490	0 to 2.5 bar absolute pressure
500	0 to 5 bar absolute pressure
501	0 to 12 bar absolute pressure
503	0 to 30 bar absolute pressure
507	0 to 100 bar absolute pressure
	(4) Output
458	IO-Link measured value transmission, including digital output
	(5) Process connection
502	G 1/4 DIN EN 837
504	G 1/2 DIN EN 837
511	1/4-18 NPT DIN EN 837
521	G 1/4 DIN 3852-11
523	G 1/2 DIN 3852-11
571	G 3/4 front-flush DIN EN ISO 228-1 ^b
	G 1/2 front-flush with double seal ^b
575	G 3/4 front-flush with double seal ^b
603	Taper socket with union nut DN 20 DIN 11851 (dairy pipe fitting) ^{b/c}
604	Taper socket with union nut DN 25 DIN 11851 (dairy pipe fitting) ^{b/}
605	Taper socket with union nut DN 32 DIN 11851 (dairy pipe fitting) ^{b/}
606	Taper socket with union nut DN 40 DIN 11851 (dairy pipe fitting) ^{b/}
607	Taper socket with union nut DN 50 DIN 11851 (dairy pipe fitting) ^d
612	Clamping socket (clamp) DN 10/15/20 according to DIN 32676 ^d
613	Clamping socket (clamp) DN 25/32/40 according to DIN 32676 ^d
616	Clamping socket (clamp) DN 50 (2") according to DIN 32676 ^e
997	JUMO PEKA hygienic process connection ^b
999	Additional process connections on request ^f
	(6) Process connection material
20	Stainless steel 316L
	(7) Electrical connection
36	Round plug M12 × 1

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(8) Extra codes	
000	Without approval
061	UL approval
100	Customer-specific configuration (specifications in plain text)
591	Choke in the pressure channel ^g
631	Improved moisture and vibration protection
1160	H2 ready – mobile hydrogen applications ^h

- ^a The inputs 447, 449, 488, 490, 508, 509 and 516 are excluded.
^b Process connections 571, 574, 575, 603, 604, 605, 606, and 997 are only available for measuring spans up to 40 bar.
^c The grooved union nut is included in the scope of delivery.
^d Process connections 607, 612, and 613 are only available for measuring spans up to 25 bar.
^e Process connection 616 is only available for measuring spans up to 16 bar.
^f Process connection 999 without UL approval.
^g Choke only for non-front-flush process connections.
^h Only with process connections 502, 504, or 511 and not available with basic type extension 004.

Order code (1) (2) (3) (4) (5) (6) (7) (8)
 / - - - - - - /
 Order example 402058 / 000 - 526 - 458 - 504 - 20 - 36 / 061

Scope of delivery

Pressure sensor in the ordered version
Installation Instructions

Accessories

Without UL approval

Designation	Part no.
Pre-configuration (service)	00427968
Service deployment	00427970
IO-Link master, 4-channel	00759867
IO-Link master, 8-channel	00759875
USB IO-Link master, 1-channel (use with Windows® PC), including mini USB cable	00694070
Connection line M8/voltage supply line 2 m, IO-Link master, 4-channel	00767913
Connection line M12/voltage supply line 2 m, IO-Link master, 8-channel	00767914
Connection line M8/Ethernet 2 m, IO-Link master, 4-channel	00767923
Connection line M12/Ethernet 2 m, IO-Link master, 8-channel	00767927
Connection line M12, 5-pole, 2 m	00777804
JUMO dTRANS p35 IO-Link IODD V1.0.1	00681036
JUMO dTRANS p35 IO-Link IODD V1.1	00681037