

Wedge clamp, with position monitoring (rear side fastening)



ROEMHELD
HILMA ■ STARK

Wedge clamp with adjustable electronic position monitoring, rear side fastening.

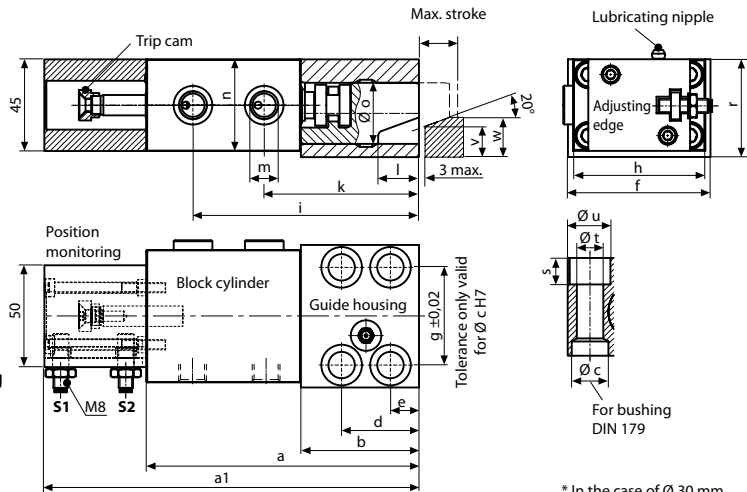
Inductive proximity switches installed in the flanged housing. The proximity switches are activated by a trip cam which is connected to the piston rod.

The switches can be displaced in a slot. The housing can be turned through 180°.

Position monitoring is available in 3 versions:

- as a compact version for M8 plug
- as a rugged long version for M12 plug
- as a version for high temperatures up to 120°C with fitted cable (L = 5 m).

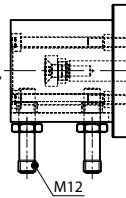
**Standard:
Version A
Compact
version
for M8 plug**



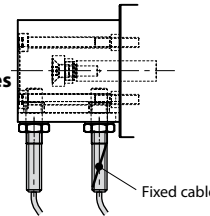
Technical data for position monitoring

Operating voltage:	10 ... 30 V DC
Constant current:	200 mA
Tripping function:	NO
Type:	PNP
Nominal tripping distance:	1.5 mm
Ambient temperature:	-25 +70°C
Version C	up to +120°C
Protective system:	IP 67

**Version B
Rugged long
version, sensor
for M12 plug**

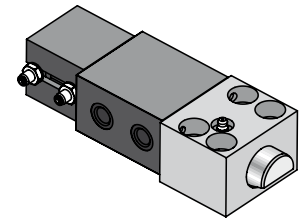


**Version C
For high
temperatures
up to 120 °C
with fitted
cable
(L = 5 m)**



The position monitoring unit can be turned through 180° (90° on request)
The block cylinder can be turned through 180°

* In the case of Ø 30 mm bolts the lubricating nipples protrude by 5 mm and are offset by 9.5 mm



* **Clamping force** ** **Permissible retention force** (Explanations see 2.2400 page 2)

	25	50	100	160	250	400	630
Max. clamping force * (kN)	25	50	100	160	250	400	630
Perm. retention force** (kN)	35	65	130	210	320	520	820
Screw property class 8.8							
Max. operating pressure (bar)	350	275	350	350	350	350	350
Cylinder-Ø (mm)	25	40	50	63	80	100	125
Max. stroke (mm)	20	25	25	30	32	40	40
Clamping stroke (mm)	15-18	18-22	19-22	23-27	24-29	30-36	30-36
a (mm)	134	168	200	235	270	310	375
a1 (mm)	184	218	250	285	330	370	435
b (mm)	58	78	100	125	150	180	225
Ø c H7 x depth (mm)	18/7	26/9	30/11	35/11	48/13	55/16	62/16
d (mm)	38	46	58	75	78	95	108
e (mm)	14	16	20	25	26	32	38
f (mm)	70	95	120	150	200	240	280
g (mm)	48	65	85	106	140	180	210
h (mm)	65	85	100	125	160	200	230
i (mm)	111	146	177	210	246	285	344
k (mm)	76	102	127	151	184	215	272
l (mm)	20	25	26	32	40	45	50
m	(4x) G ¼	(4x) G ¼	(4x) G ¼	(4x) G ½	(2x) G ½	(2x) G ½	(2x) G ½
n (mm)	45	63	75	95	120	150	180
Ø o (mm)	30	40	55	70	80	100	125
p (mm)	21,5	28	37	49	55	75	85
r (mm)	48	65	80	105	125	160	190
s (mm)	13	18	20	26	32	38	44
Ø t (mm)	13	17	21	26	33	39	45
Ø u (mm)	20	26	32	40	48	57	66
v (mm)	15	18	25	30	30	50	60
w (mm)	19,5	23,5	30,5	37	38	60	70
Screw DIN 912-8.8 (4 pieces)	M 12	M 16	M 20	M 24	M 30	M 36	M 42
Tightening torque (Nm)	86	210	410	710	1450	2520	4050
Weight (kg)	3,0	6,5	11,4	21,7	41	74,7	126
Part no.	4604 670	4604 671	4604 672	4604 673	4604 674	4604 675	4604 676
	Always add the desired sensor version to the part no., e.g., 4604 670 B						
Accessories Bushings DIN 179	12 x 12	17 x 16	21 x 20	26 x 20	32 x 25	38 x 30	44 x 30
Part no.	3300 285	3300 287	3300 288	3300 289	3300 420	3300 430	3300 440



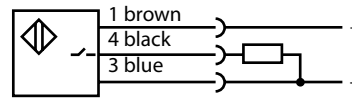
Description

The position monitoring unit is fixed to the cylinder bottom by means of screws. It can be fastened in a position turned by 180°. Various versions are available to suit different applications. The trip cam for activating the proximity switches is positioned on the continuous piston rod. The tripping position is adjusted by displacing the proximity switches in the lateral slot. The proximity switches are activated by the trip cam within a stroke of approx. 6 mm. The minimum distance of the tripping positions depends on the type of switch and is indicated in the table.

Function

1. Function message of the unclamped position, i.e. the piston rod has retracted.
2. Message of the clamped position, i.e. the piston rod has extended and is in the clamping range.

Wiring diagram



Important information

The position monitoring unit is not suitable for use in areas with coolant. Also, additional covers must be provided to protect the system from any swarf.

Planning - Conditions of application - Protective measures

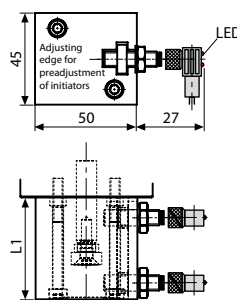
Careful planning is of great importance. The conditions of application and the protective measures must be taken into consideration and ensured.

Please contact us for more detailed information.

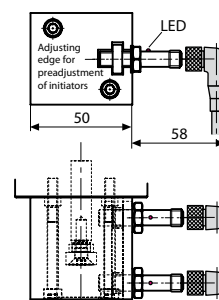
Technical data of inductive proximity switches

Operating voltage:	10 ... 30 V DC
Residual ripple:	max. 15%
Tripping function:	NO
Type:	PNP
Material of housing:	corrosion-proof steel
Protective system (DIN 40050):	IP 67

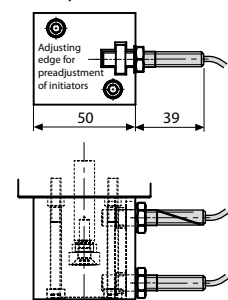
Version A (standard)
Compact version M8



Version B
Long version M12



Version C
High ambient temperatures



	Ambient temperature TA	-25° ... +70°C	-25° ... +70°C	-25° ... +120°C
Min. distance of tripping position (mm)	8	13	8	8
Type of connection	plug	plug	Teflon cable 3 x 0,14 mm2	
LED visualisation of function	in the plug	yes	no	
Max. constant current (mA)	200	200	200 - (from 70°C) 100	
Nominal tripping distance (mm)	1,5	1,5	2	
Short-circuit proof	yes	yes	no	
Connecting cable (m)	5	5	3	
Proximity switch Part no.	6.3829.0980	2.5012.0064	6.3829.0870	
Plug with cable Part no.	3829099	2.0975.0024	fixed	
L1 complete (mm)	50	50	50	
Position monitoring up to 30 mm total stroke Part no.	7.6282.0010 A	7.6282.0010 B	7.6282.0010 C	
(without a plug) up to type 4604 673				
L1 complete (mm)	60	60	60	
Position monitoring up to 50 mm total stroke Part no.	7.6282.0011 A	7.6282.0011 B	7.6282.0011 C	
(without a plug) from type 4604 674				