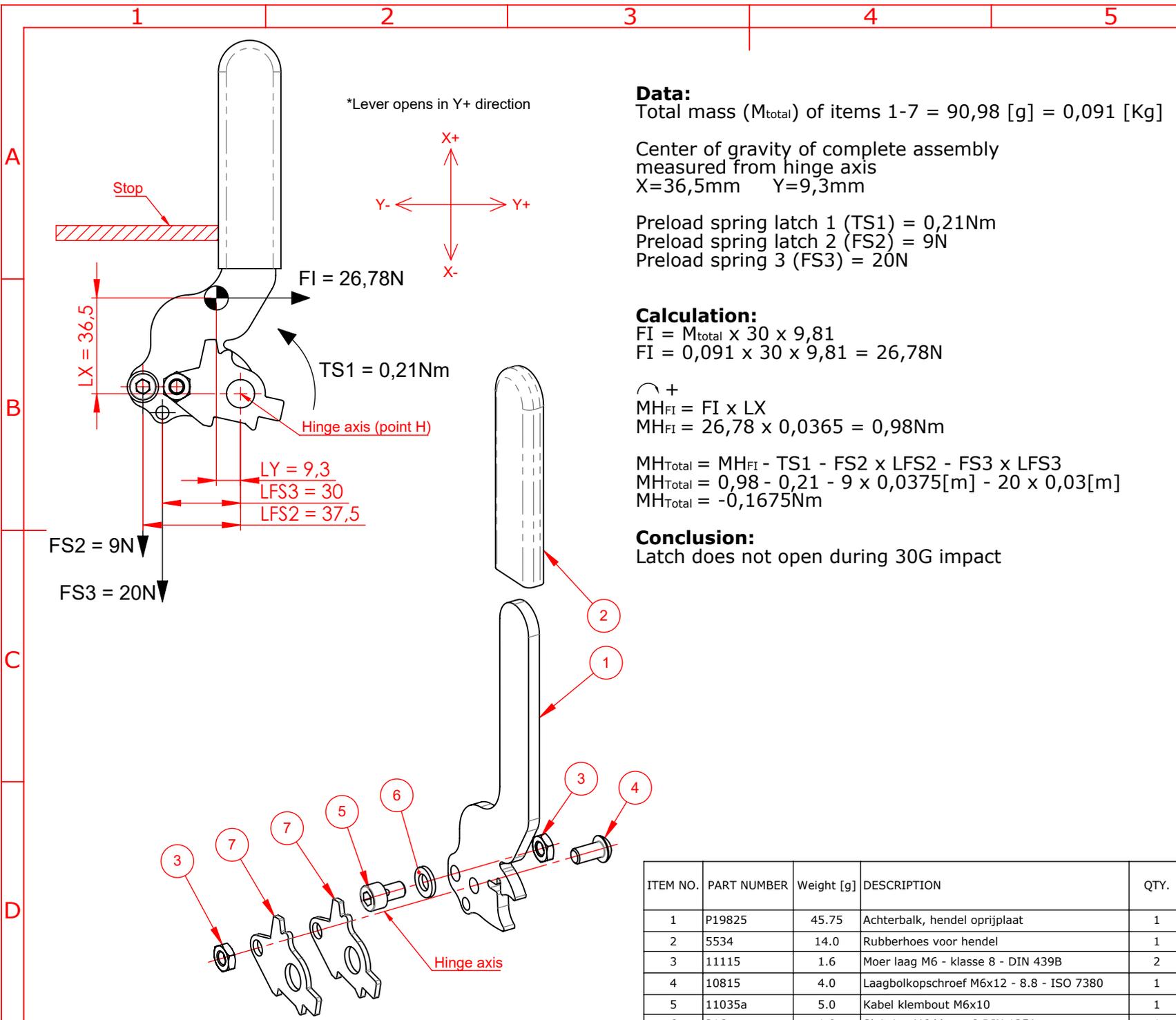


REVISIONS			
REV.	DESCRIPTION	DATE	APP
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<p>Drawn by S. Voormolen Date 25-03-2022 Department Homologation</p>	<p>Notes - Measurements in mm - Tolerance ±0.5mm - Homologation drawing, prior to modification please consult Homologation department -LHD and RHD</p>	<p>Homologation number HOM-121-FKL?</p>	
<p>Material - Weight -</p>	<p>Car(s) -Mercedes Citan Tourer L? 2021- -Renault Kangoo L? 2021- -Nissan Townstar L? 2021- - -</p>	<p>Title Latch resistance to inertia</p>	
<p>Subgroup Locks and door hinges</p>			
<p>Scale 3rd 1:5</p>	<p>Sheets 1 of 3 A4</p>	<p>Part No. 19962</p>	



*Lever opens in Y+ direction

Data:
 Total mass (M_{total}) of items 1-7 = 90,98 [g] = 0,091 [Kg]

Center of gravity of complete assembly
 measured from hinge axis
 $X=36,5\text{mm}$ $Y=9,3\text{mm}$

Preload spring latch 1 (TS1) = 0,21Nm
 Preload spring latch 2 (FS2) = 9N
 Preload spring 3 (FS3) = 20N

Calculation:
 $FI = M_{total} \times 30 \times 9,81$
 $FI = 0,091 \times 30 \times 9,81 = 26,78\text{N}$

$MH_{FI} = FI \times LX$
 $MH_{FI} = 26,78 \times 0,0365 = 0,98\text{Nm}$

$MH_{Total} = MH_{FI} - TS1 - FS2 \times LFS2 - FS3 \times LFS3$
 $MH_{Total} = 0,98 - 0,21 - 9 \times 0,0375[m] - 20 \times 0,03[m]$
 $MH_{Total} = -0,1675\text{Nm}$

Conclusion:
 Latch does not open during 30G impact

REVISIONS			
REV.	DESCRIPTION	DATE	APP
-	See Sheet1	-	-

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Drawn by	S. Voormolen	Notes - Measurements in mm - Tolerance ±0.5mm - Homologation drawing, prior to modification please consult Homologation department -LHD and RHD
Date	25-03-2022	
Department	Homologation	
Material	-	
Weight	90.98 [g]	

Homologation number
 HOM-121-FKL?

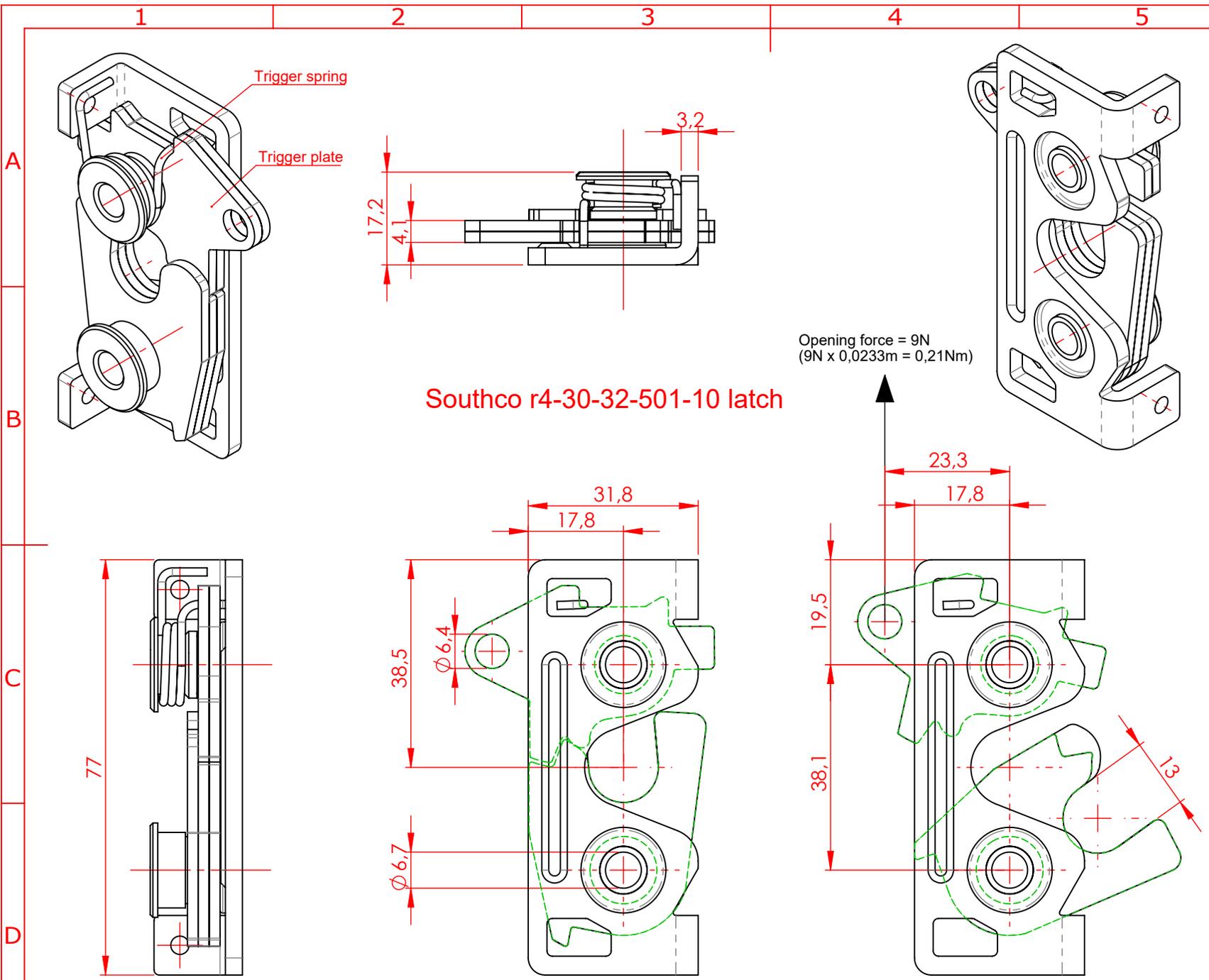
Car(s)
 -Mercedes Citan Tourer L? 2021-
 -Renault Kangoo L? 2021-
 -Nissan Townstar L? 2021-
 -
 -

Title
 Latch resistance to inertia

Subgroup
 Locks and door hinges

	Scale 1:2	Sheets 2 of 3	Part No. 19962
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ITEM NO.	PART NUMBER	Weight [g]	DESCRIPTION	QTY.
1	P19825	45.75	Achterbalk, hendel oprijplaat	1
2	5534	14.0	Rubberhoes voor hendel	1
3	11115	1.6	Moer laag M6 - klasse 8 - DIN 439B	2
4	10815	4.0	Laagbolkopschroef M6x12 - 8.8 - ISO 7380	1
5	11035a	5.0	Kabel klembout M6x10	1
6	216	1.0	Sluitring M6 klasse 8 DIN 125A	1
7	16265 sheet 3	11.34	Southco r4-30-32-501-10 latch part	2



REVISIONS			
REV.	DESCRIPTION	DATE	APP
-	See Sheet1	-	-

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Drawn by	S. Voormolen	Notes - Measurements in mm - Tolerance ±0.5mm - Homologation drawing, prior to modification please consult Homologation department -LHD and RHD
Date	25-03-2022	
Department	Homologation	
Material	-	
Weight	38.68 [g]	

Homologation number
HOM-121-FKL?

Car(s)
-Mercedes Citan Tourer L? 2021-
-Renault Kangoo L? 2021-
-Nissan Townstar L? 2021-
-
-

Title
Latch resistance to inertia

Subgroup
Locks and door hinges

	Scale 1:1	Sheets 3 of 3	Part No. A4 19962
	3rd		